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Frequently Asked Questions

How to install/ remove faceplate and hand brakes onto lathes

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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

Caution:


For safety purposes, make sure that you disconnect all power sources to the lathe. Always exercise caution when performing these operations.

Installing a Face plate

Tools required:

1 x Allen Wrench of suitable size to your faceplate

Procedure:

Step No.	Description	Image
1.	<p>Lock the spindle.</p> <p>Screw the faceplate on the spindle. Turn it in clockwise direction (looking from the tailstock side)</p> <p>Note: Screw it in all the way to the bottom so that the faceplate comes into contact with the bearing.</p>	 <p>There should be no/ minimum gap</p>

2.

If your faceplate has a side hole to secure the faceplate by a grub screw:

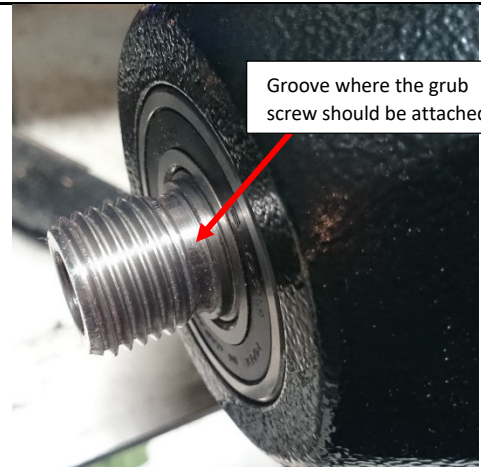
Once the faceplate is screwed on, check that the grub screw hole lines up with the flat groove on the spindle.

Note:

If the groove is not lined up with the grub screw hole (If some threads are showing from the grub screw hole) there is a risk of damaging a part of the thread when putting the grub screws on. Either try screwing it on further run without the grub screw.

As long as the lathe is run forward there is minimal risk in using the faceplate without the grub screws. If you were to run it in reverse, then there is a significant increase in safety risk as it may screw off. Do not run the lathe in reverse if the faceplate is not secured by grub screws.

If your faceplate does not have side holes for grub screws, then just screw your faceplate up all the way to the bearing and finish. **Do not run the lathe in reverse with these types of faceplates.**



3.

If your faceplate has side holes to secure the faceplate:

Tighten the grub screw to secure the faceplate in place.

Note:

Use a flat end grub screw to minimise the damage imposed on the spindle.



Removal of the faceplate may be slightly difficult compared to attachment since the faceplate will be threaded in further if it is not screwed all the way up to the bearings.

To remove a hard faceplate:

Tools Required:

2 x Suitable bolts along with nuts for it

1 x long timber or metal rod

Procedure:


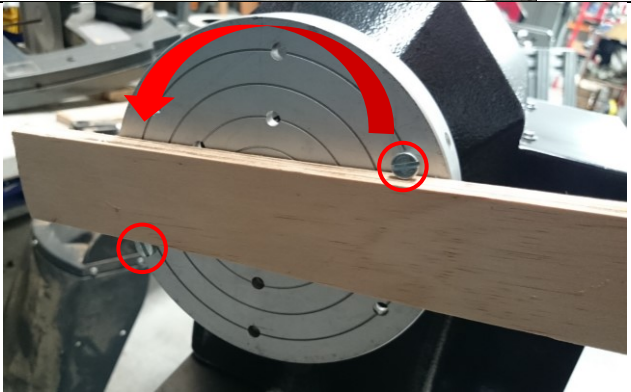
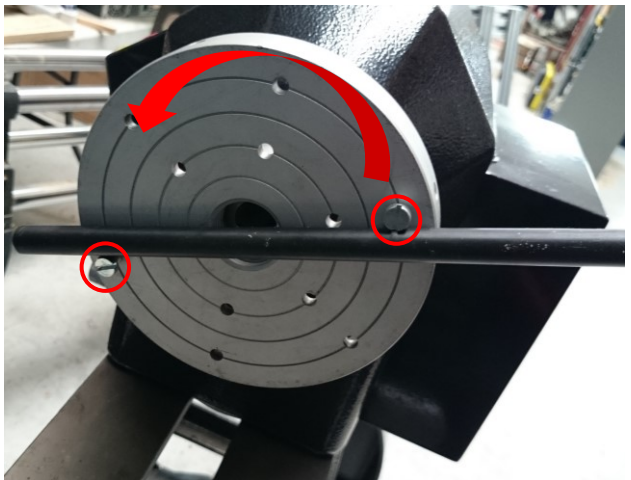
Step No.	Description	Image
1.	If the plate is secured by grub screws, loosen it or take them out.	
2.	<p>Unscrew the faceplate.</p> <p>Note: If the faceplate is difficult to take off, you will have to lock the spindle in place by using a screwdriver (or anything similar like an operation bar) in the handbrake. Do not use the index pin to lock the spindle since it may damage the index wheel.</p> <p>To unscrew a tight faceplate off the spindle, you will need 2 bolts of suitable diameter (Large enough to fit the faceplate holes without much wobble) and a long rod like material. The bolts need to be placed on the opposite side of the faceplate as shown (Screw nuts from the back to adjust the length of the bolts coming out). Use the long rod (or timber) to turn the faceplate anti-clockwise make sure that the material that you are using to turn is strong enough so it does not break.</p> <p>Caution: If you are using a round rod, the rod could slip off the bolts and lead to injury. If you are using long timber, there is a chance of it snapping therefore proper safety precaution should be exercised.</p>	 <p>Figure 1: Unscrewing using a Timber</p>  <p>Figure 2: Unscrewing using metal rod</p>



Figure 3: Screwdriver in handwheel to lock in place

To remove hand brakes from lathe headstocks:

Note:


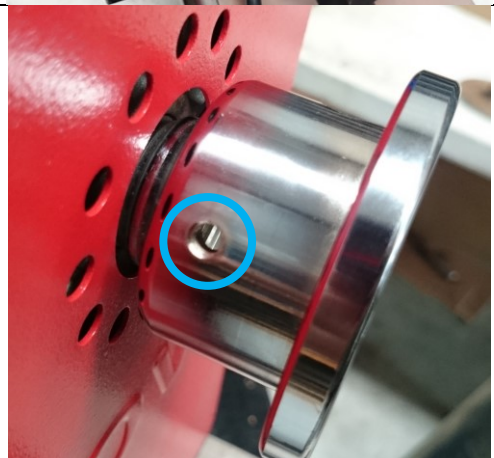
NOVA DVR Galaxi, XP and 2024 have similar handbrake designs therefore the following procedures can be applied to all 3 models.

Tools Required:

1 x long screwdriver (or anything similar)

1 x 38mm spanner or 6mm Allen wrench (depending on how you are going to hold the spindle)

Procedure:

Step No.	Description	Image
1.	Engage the index pin	
2.	If there are any, remove any set screws to be found on the side holes	

3. Use a long screwdriver or anything similar like an operation bar to turn the handwheel in a clockwise direction (when looking straight at it).

The handwheel will screw off

Note:

If the handwheel is very tight, do not use the index pin to hold the spindle in place as can cause damages to either index pin or index wheel.

If the handwheel is hard to take off, hold the spindle in place by using either chuck inserts or timbers. The configurations are shown. Looking from the configuration shown (With the headstock circuit box towards you):

- Turn the handwheel away from you
- Turn the spindle side towards you

Installation of handwheels are the exact opposite of disassembly. Just screw the handwheel back into the spindle and tighten it.

