

## Teknatool International Ltd

65 The Concourse  
Henderson Auckland New Zealand  
Ph 0064 9 837 6900 Fax 0064 9 837 6901  
Email [sales@teknatool.com](mailto:sales@teknatool.com) Website [www.teknatool.com](http://www.teknatool.com)



## Frequently Asked Questions

Date Raised:	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 <a href="mailto:service@teknatool.com">service@teknatool.com</a>
Date Amended:	

### **Question: How do I dismantle my Precision Midi chuck for cleaning?**

Answer:

This guide contains information on how to disassemble your chuck for cleaning and maintenance. The guide starts right from the basic position of the chuck on the lathe; you may wish to skip several steps in order to advance to where you are currently at.

### **Tools required**

- 1½" spanner
- Circlip pliers
- Safety glasses
- Motor oil (20W-50)
- 3mm Allen key (provided with Precision Midi Chuck)
- Plastic hammer (or block of wood)

### **1. Disassembling the Precision Midi Chuck**



Using circlip pliers remove circlip from bottom of chuck holding in the plastic backing.

**YOU MUST WEAR SAFETY GLASSES WHILE PERFORMING THIS OPERATION AS CIRCLIP MAY FLY UPWARDS OFF PLIERS**

Loosen the M6 grub screw on the side of the chuck as shown in the picture below

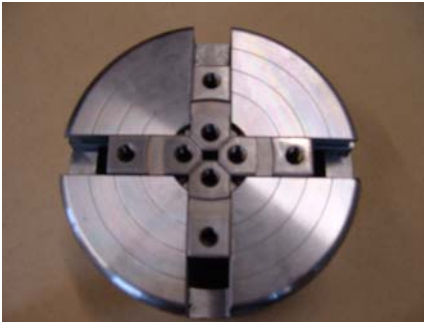


Do not worry if there is no grub screw in the chuck. It is not used in all chucks. Extra grub screws are supplied in the packing if it is needed at a later stage

## 2. Cleaning the separate components of the Precision Midi chuck:

- Clean each jaw slide with rag removing any grit, wood and dust particles etc.
- Clean scroll ring of all grease, grit wood etc
- Re-oil the scroll ring (any 20W-50 oil)
- If possible before re-assembling the chuck, blow out all parts with an air compressor.

## 3. Reassembling the Precision Midi Chuck



Push all jaw slides to meet in center forming a square. Make sure the No. 1 Jawslide is in the slideway with the dimple (a small half moon shape on the inner diameter of the slideway)

Starting with Jawslide 1, insert jaws in clockwise direction in numerical order.



Place scroll ring in chuck and move it counter-clockwise till it has engaged. Make sure the jaws have not moved and still have a square form in the centre.



Using circlip pliers to insert the circlip back into the groove above the scroll ring.

**YOU MUST WEAR SAFETY GLASSES WHILE PERFORMING THIS OPERATION AS CIRCLIP MAY FLY UPWARDS OFF PLIERS**

If you find that the chuck action is too loose, insert the plastic wad and grub screw (either already in the chuck or supplied in the packaging) as shown-tighten the grub screw just enough to give you a smooth chuck action. Do not over tighten the grub screw as this will lock up the jaws



#### 4. MOUNTING & DISMOUNTING OF JAWS

The Precision Midi 2 chuck comes with no jaws attached. With the many jaws available it is very easy to use your single chuck for a very wide range of applications. All jaws in the Teknatool range for the Precision Midi are secured and attached the same way.

**Attaching Jaws** - To mount the jaws to the Precision Midi chuck is another easy process. Firstly wipe clean all jaw slides making sure a clean contact will ensure. Repeat this with all four jaws you wish to attach. Jaw slides are numbered one to four and have a corresponding jaw - of the same number. Place a jaw on its correct jaw slide and position into the groove (location ring out from the jaw into the groove of the jawslide). The first few times you may need to GENTLY tap the jaws into the locator slot with a block of wood or plastic mallet. Place M6X6 counter sunk screws in jaws and screw them to finger tight (a little grease smeared under the heads at this stage, can aid removal later) When both screws are in nip up them and back them off half a turn. Repeat this with the remaining three jaws, now using the 8mm T bar Allan key scroll all jaws towards middle until they all come together. Now with all jaws touching and exerting equal pressure on each tighten all screws up. This will ensure a perfect run out. Check to see there are no gaps between the jaws if this has happened it will probably be due to a jaw being placed on its wrong number (e.g. a #2 jaw on a #3 jaw slide)

**Removing Jaws** - Simply using the 4mm Allan key supplied, unscrew all M6 counter sunk screws (there are eight of them). The jaws will come away once their screws are released, however sometimes due to dust particle build up after heavy turning the jaws may need a very light tap with a plastic hammer to dislodge them. It is important to keep them in their set so not to mix them up with other jaws of the same type.