# Shim plate installation and alignment

EC-MS Technical Note #14

Last Updated 31-05-2022

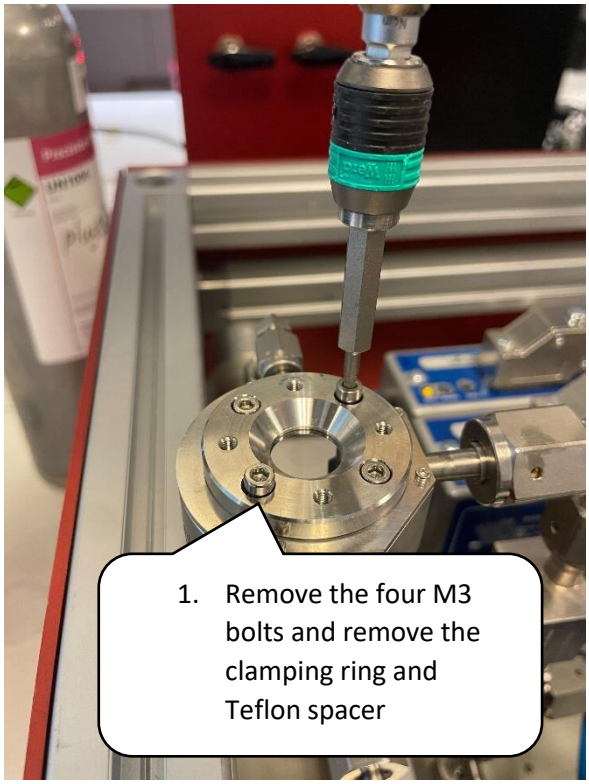
## Introduction

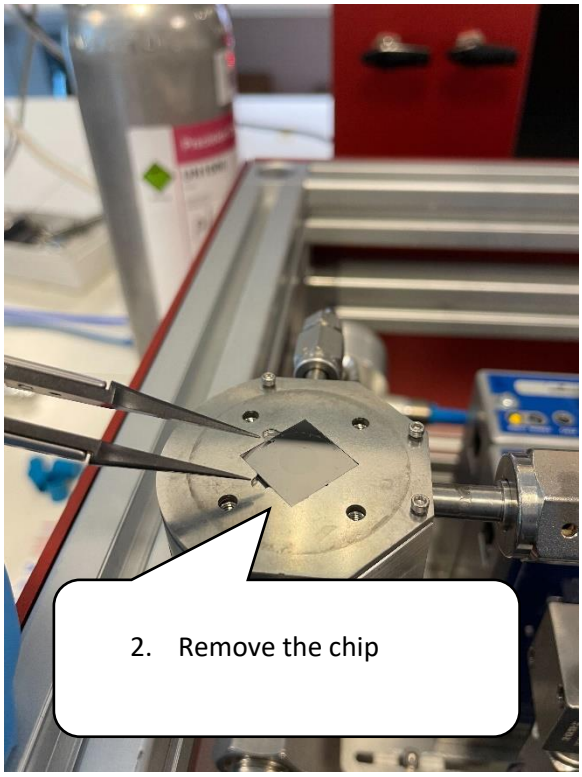
The purpose of this procedure is to make sure the shim plates are installed and aligned correctly upon removal from the interface block.

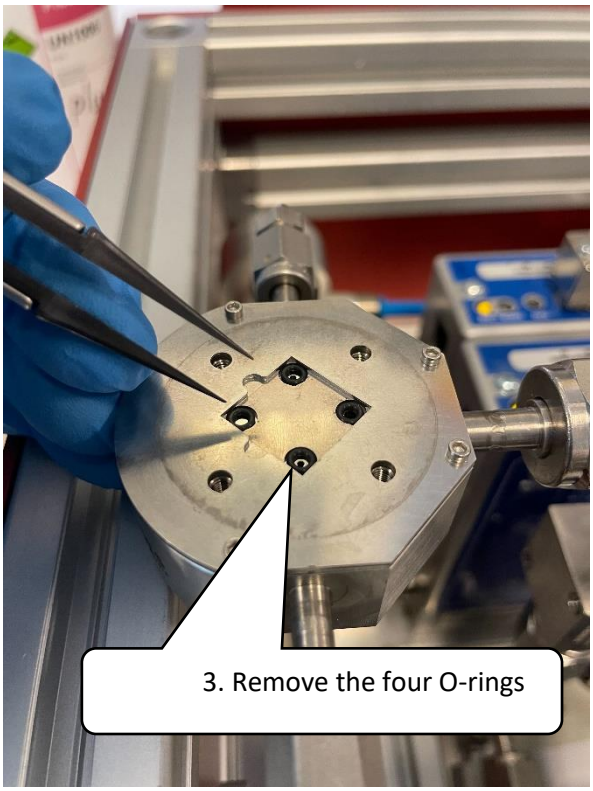
## How to

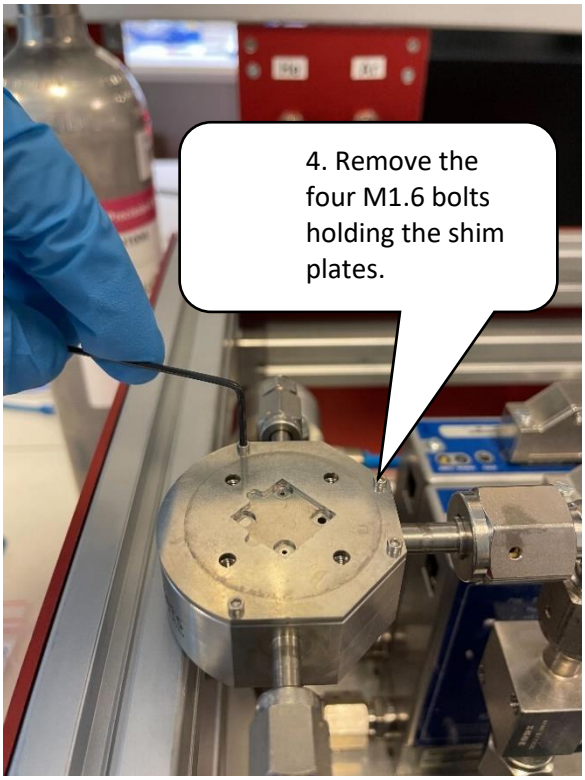
Required tools:

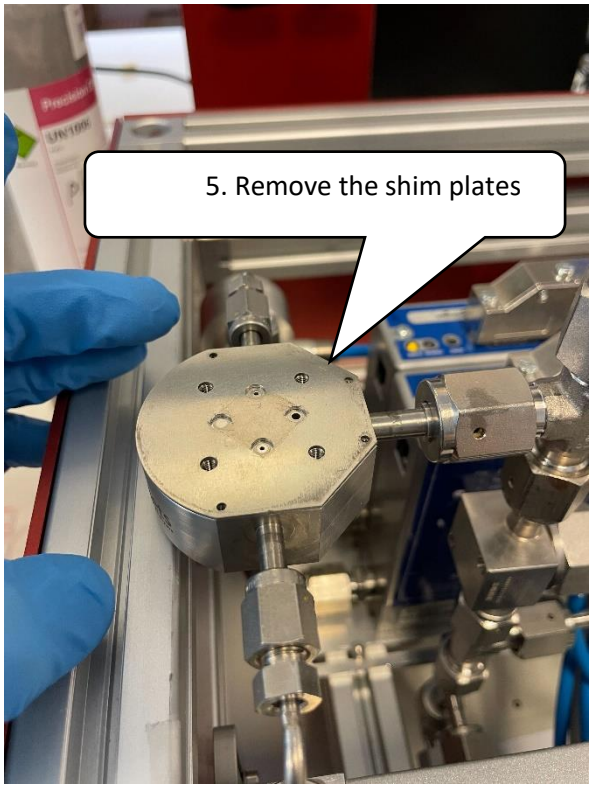
- Torque screwdriver with 2.5 allen key tip
- 1.5 allen key
- Tweezer

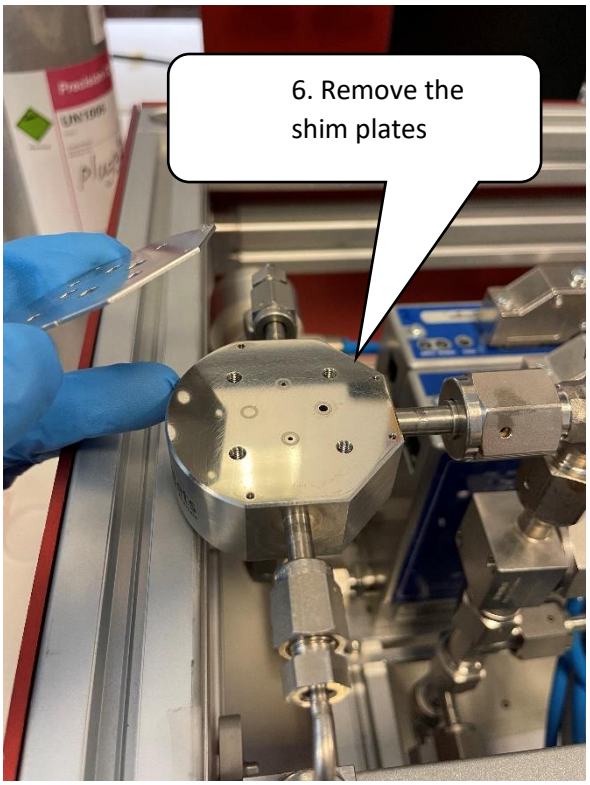



3. Remove the four O-rings

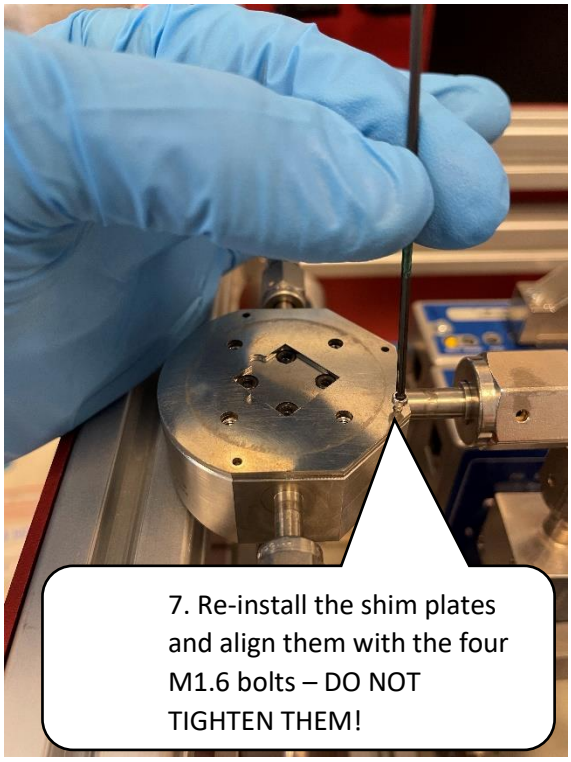

4. Remove the four M1.6 bolts holding the shim plates.


5. Remove the shim plates

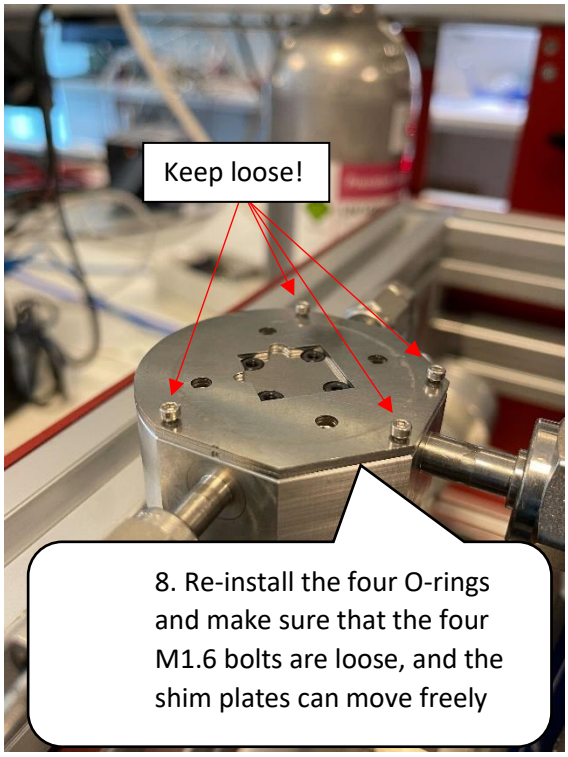

6. Remove the shim plates



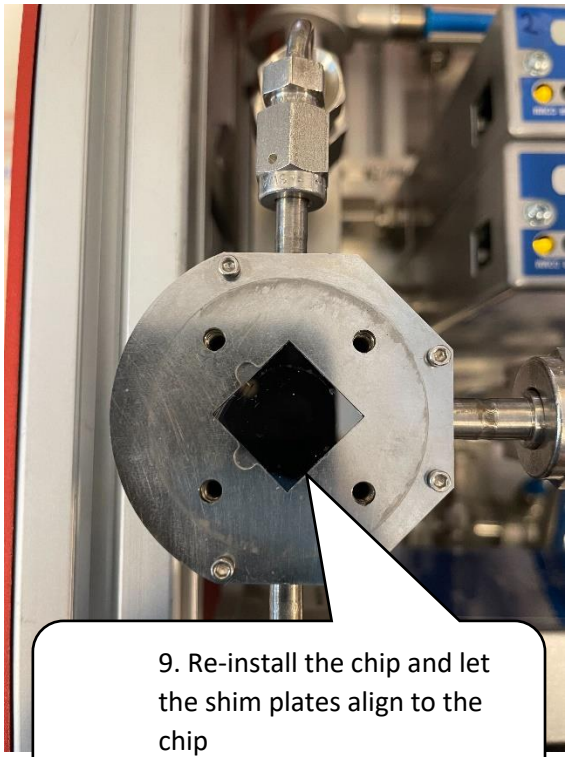
Components removed from the interface block.



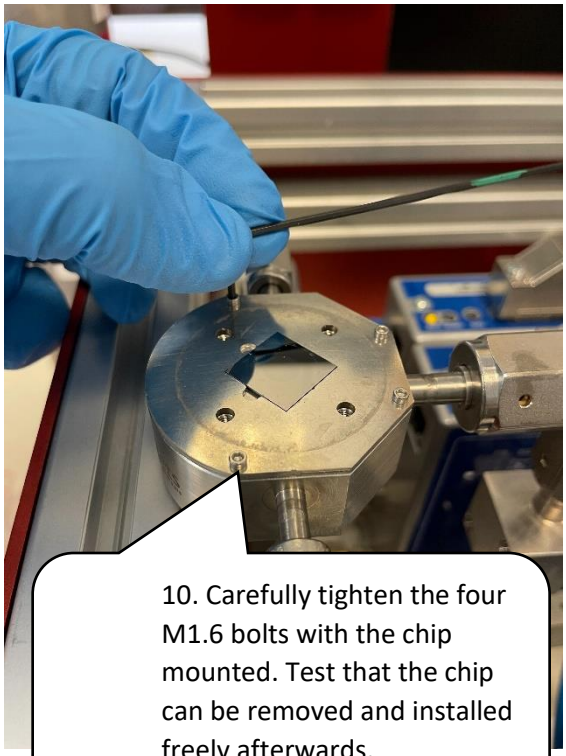
7. Re-install the shim plates and align them with the four M1.6 bolts – DO NOT TIGHTEN THEM!




8. Re-install the four O-rings and make sure that the four M1.6 bolts are loose, and the shim plates can move freely



9. Re-install the chip and let the shim plates align to the chip



10. Carefully tighten the four M1.6 bolts with the chip mounted. Test that the chip can be removed and installed freely afterwards.



11. Install the clamping ring and Teflon spacer. Tighten the four M3 bolts with the torque screwdriver. DONE!