

Prior Scientific Help Guides and Installation Instructions

UPDATED 16 June 2015

Installation of a direct coupler for Meiji microscopes

Installation of a direct coupler for Meiji microscopes

NOTE: The Focus drive must be installed on the left hand side of the microscope. **DO NOT** attempt to remove the fine focus knob from the right hand side of the microscope.

- 1) Move the system to the bottom o the focus travel to ensure the system does not fall to the bottom of the focus travel when the focus knob is removed.
- 2) Remove the black cap on the end of the fine focus knob.



- 3) Remove the holding screw found behind the cap using the M2.5 HEX wrench provided with the kit.



- 4) Remove the fine focus knob on the left hand side of the microscope using the .050 in HEX wrench provided with the coupler kit. The focus knob can be removed by loosening the set screw in the hole (indicated in the image below; note that at this point during the actual procedure the cap and holding screw should both have been removed which is not shown in the image below). When the knob is removed, the knob on the right hand side will be loose and can be pulled out from the microscope – ensure that this does not happen throughout the installation of the coupler kit.



- 5) Slide the plastic spacer onto the fine focus shaft of the microscope. While putting pressure on the fine focus knob on the right side of the microscope, attach one half the coupler to the fine focus shaft of the microscope and use a 1.5 mm HEX wrench to tighten the two set screws of the coupler. Pressure needs to be applied to the opposite fine focus knob to ensure that the shaft is not pushed out from the microscope. See the picture below of how the coupler and spacer will look when they are properly installed.



- 6) Remove the friction pad from the focus motor using a Philips head screw driver and attach the other side of the coupler to the shaft using the 1.5 mm HEX wrench provided with the kit. There are two set screws that will need to be tightened in order to ensure that the coupler is installed securely. Once the coupler is installed, attach the black torque disk to this half of the coupler.



- 7) Place the focus sleeve provided with the motor in the course focus knob on the left hand side of the microscope.



- 8) Attach the bell housing to the focus sleeve and course knob by sliding the housing over the focus sleeve. At this point, do not attach the three set screws as you may have to slide back the housing during step 9 to make the attachment process easier.



- 9) Slide the focus motor into the bell housing and connect the black torque disk to the half of the coupler attached to the fine focus shaft. If you are unable to easily get the coupler pieces to connect slide back the bell housing to get a better look and feel for the angle of the coupler pieces. Once you have ensured that all three pieces of the coupler are securely attached slide the bell housing back over the focus sleeve and tighten the three set screws using the 2mm HEX wrench provided with the kit.

