

Instructions for mounting Prior Scientific H122LMZ

The following directions are for mounting Priors' H122LMZ focus motor to the Leica MZ stereo focus block.

Tools required:

Flat screwdriver
Metric Allen Keys

1. Remove screw at the end of the fine focus knob. Pull fine focus knob off of microscope.



Figure 1

2. Using flat screwdriver remove 3 screws holding coarse focus knob to microscope. Remove coarse knob.



Figure 2

3. Mount hub with 8mm ID to focus shaft.

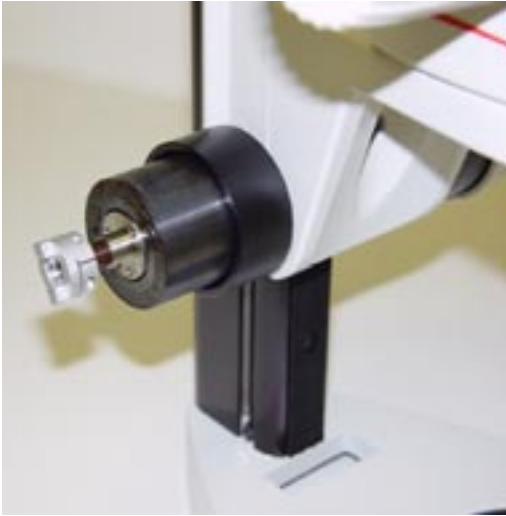


Figure 3

4. Install the focus motor housing and sleeve onto the smaller diameter of the focus mechanism, per the following instructions.
 - A. Loosen the thumb screw on the focus motor assembly and remove the focus motor from the focus adapter.
 - B. Loosen the 3 socket set screws around the periphery of the focus adapter using a 2mm Allen wrench until the focus sleeve is able to fit inside the adapter. Note that it is important to insert the sleeve in the correct orientation with the lip furthest inside the adapter (the chamfered edge of the sleeve will be inserted first). Note the orientation of the sleeve as it has a recess around its outer surface, which will hold the sleeve in when the setscrews are tightened. Note: The focus sleeve may already be installed into the focus adapter before shipping.
 - C. With the sleeve in place, tighten the 3 socket set screws in sequence until they all **just touch** the sleeve, ensuring that the split in the sleeve does not line up with any of the set screw positions. **DO NOT TIGHTEN UP ANY OF THE SETSCREWS AT THIS TIME.**
 - D. Push the adapter onto the smaller diameter of the focus mechanism of the microscope as far as it will go (this may be on the right or left depending on user preference). The inside/fitting diameter of the sleeve is designed to be slightly larger than focus mechanism, provided the setscrews have not been tightened and are compressing the sleeve.

E. While holding the adapter in place, tighten the set screws in sequence until the focus adapter is held securely in place. See figure 4



Figure 4

5. Line up the hub and black coupling on the focus motor with the hub installed on the focus shaft, figure 5



Figure 5

- Slide the focus motor into the adapter as far as it will go. You may need to rotate the motor slightly to ensure the coupler seats itself correctly. While applying gentle pressure to the motor tighten the thumb screw, this will hold the motor in place. The coupler should now be engaged. This can be confirmed by manually rotating the exposed fine focus knob on the opposite side of the microscope and feeling for the resistance caused by the detent positions of the stepper motor as it rotates. Figure 6



Figure 6

- Confirm that the controller is switched off before connecting the 9 way D type plug on the focus motor lead to the socket on the rear of the controller. The final assembly should look as below. Figure 7

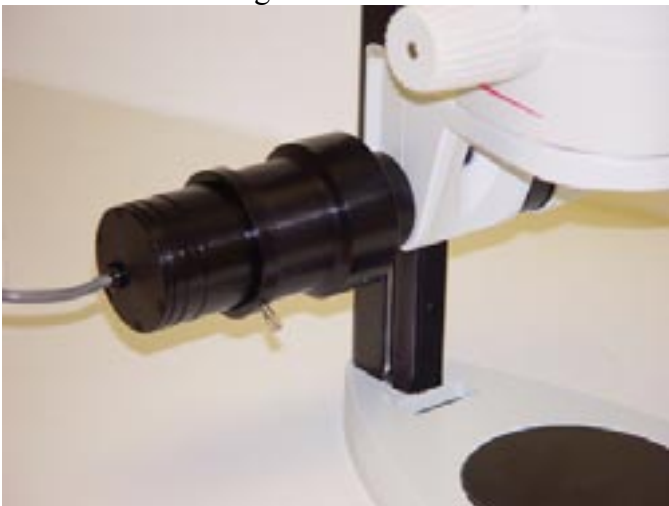


Figure 7