

Prior Scientific Help Guides and Installation Instructions

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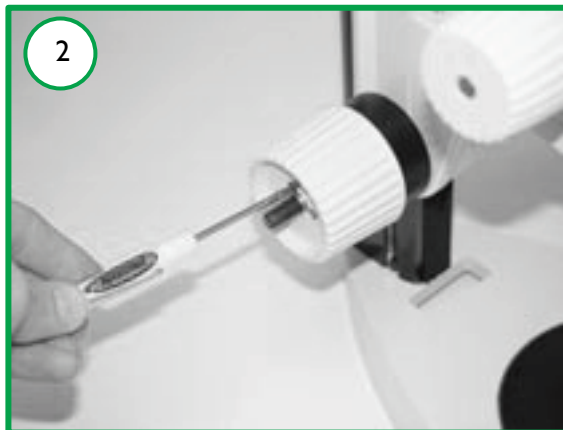
# Installing H122LMZ on Leica MZ

The following instructions are for installing Prior's H122LMZ focus motor to the Leica MZ stereo focus block. In addition to the focus motor kit you will also require a flat screwdriver and metric hex keys.

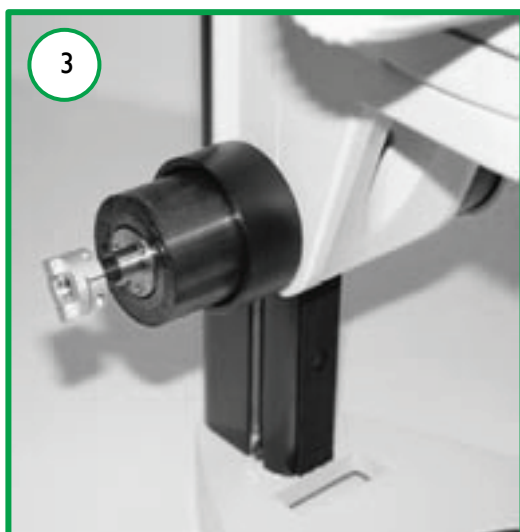
- 1) Remove the screw at the end of the fine focus knob. Pull the fine focus knob off the microscope (Fig 1).



- 2) Using the flat screwdriver remove 3 screws holding the coarse focus knob to the microscope. Remove the coarse knob (Fig 2).

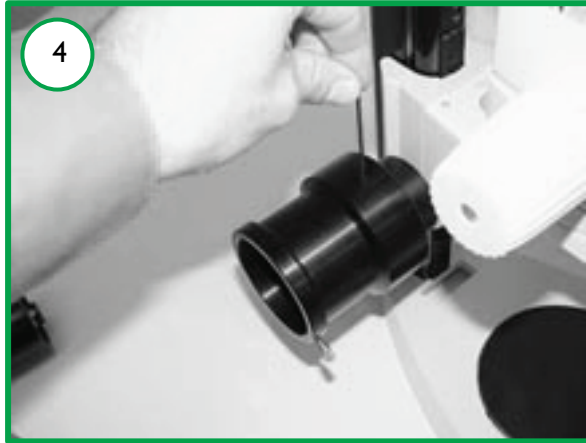


3) Mount hub with 8 mm ID to focus shaft (Fig 3).



- 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 from the focus adapter.
  - b) Loosen the three socket set screws around the periphery of the focus adapter using a 2 mm hex key until the focus sleeve fits inside the adapter. 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, which will hold the sleeve in whilst the set screws are tightened. Please note that the focus sleeve may already be installed in the focus adapter before shipping.
  - c) With the sleeve in place, tighten the three socket set screws in sequence until they all just touch the sleeve. Ensure that the split in the sleeve does not line up with any of the set screw positions. **Do not tighten up any of the set screws at this time.**
  - d) Push the adapter on the smaller diameter of the focus mechanism of the microscope as far as it will go (this may be on the right or left hand side depending on the user preference). The inside/fitting diameter of the sleeve is designed to be slightly larger than the focus mechanism, assuming that the screws 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 (Fig 4).

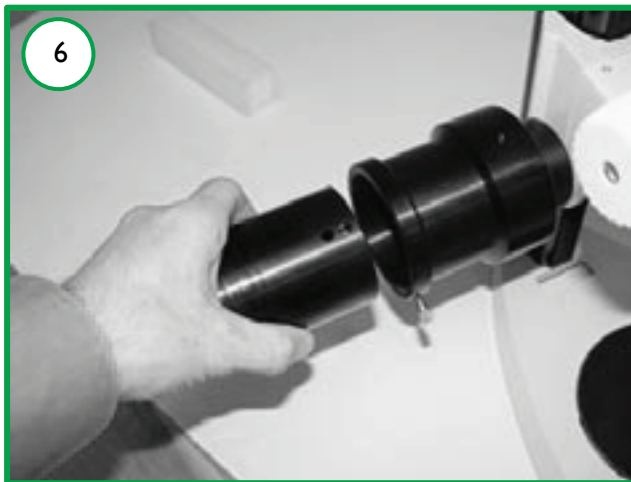


- 5) Line up the hub and black coupling on the focus motor with the hub installed on the focus shaft (Fig 5).



- 6) Slide the focus motor in as far as it will go. You may need to rotate the motor slightly to ensure the coupler seats itself correctly. To hold the motor in place, apply gentle pressure to the motor whilst tightening the thumb screw. At this point the coupler should be engaged – to confirm this, manually rotate 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 (Fig. 6).



7. 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 (Fig. 7).

