Olympus BX51 \ BX53 Installation Procedure

The procedure below outlines the steps necessary to install the ASI Microscope Focus Controller Drive onto the Olympus BX51, BX53 microscope.

To perform the following steps you will need the following tools:

Medium flat blade screwdriver 3mm, 1/16, 5/64 and 7/64 inch hex wrenches ASI provides the hex wrenches.

The procedure has three parts:

1. Removing the left fine focus knob
2. Installing the baseplate
3. Installing and aligning the motor drive assembly.
4. Installing the motor drive cover plate & fine focus knob.

Part 1 - Removing the Left Fine Focus Knob& installing the Flex Coupler

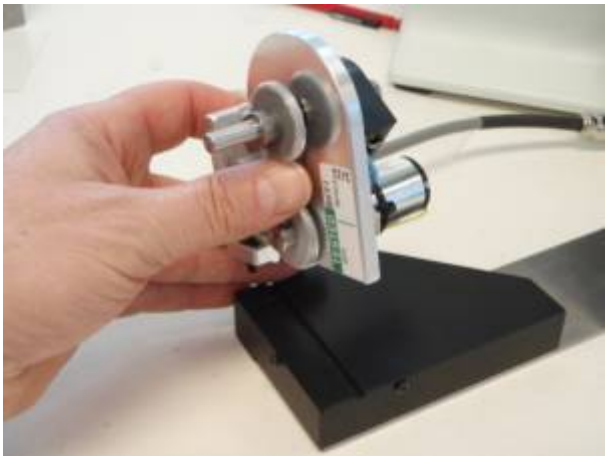
Remove the left fine focus knob from the microscope as follows:

Firmly hold the right fine focus knob with your right hand and turn the left fine focus knob counter clockwise to unscrew it from the fine focus shaft.

When installing the coupler insure that it is pressed all the way against the brass part of the microscope without pushing the right focus knob out at all. Check for any play in the focus shaft by pushing & pulling the right focus knob – there should be no play. Fasten the flex coupler using a 2mm Allen wrench.

Part 2 - Installing the Baseplate

Locate the baseplate and remove the ASI drive from it if it is attached by using the 3mm Allen wrench to remove the Horizontal adjustment screw. Position the base plate assembly it so that the horizontal adjustment bar is on the left side of the microscope. Lift the front of the microscope up and slide the base plate under the microscope so that angled portion of the base plate is aligned with the contour of the microscope.



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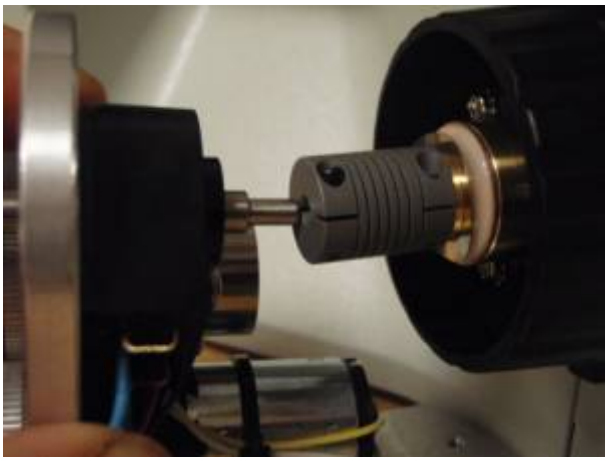

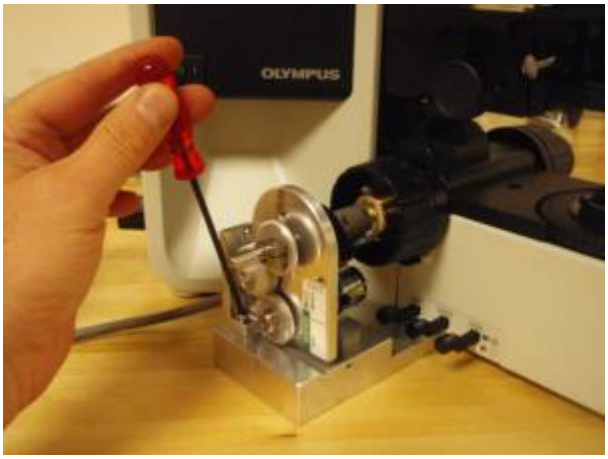
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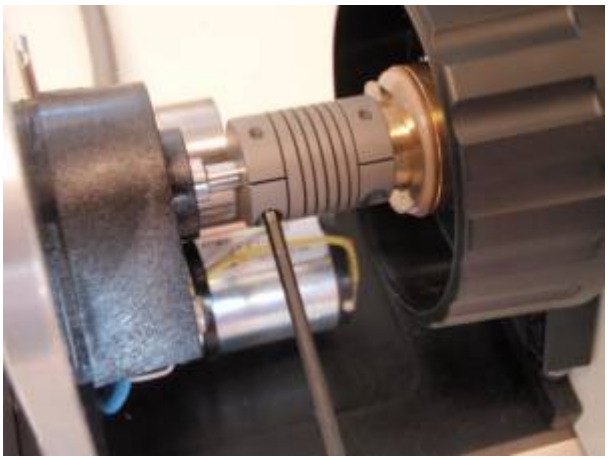
Part-3 Installing & Aligning the Motor Drive

As shown in the above photos install the Z-drive onto the base plate by sliding the drive shaft into the flex coupler, and installing the horizontal adjustment screw that was removed in Part 2. Use the 7/64” Allen wrench to lightly tighten this screw. Please note that the base plate may need to be moved slightly to align everything correctly. Use the 5/64” Allen wrench to tighten the base plate camp on the right side of the microscope as shown.



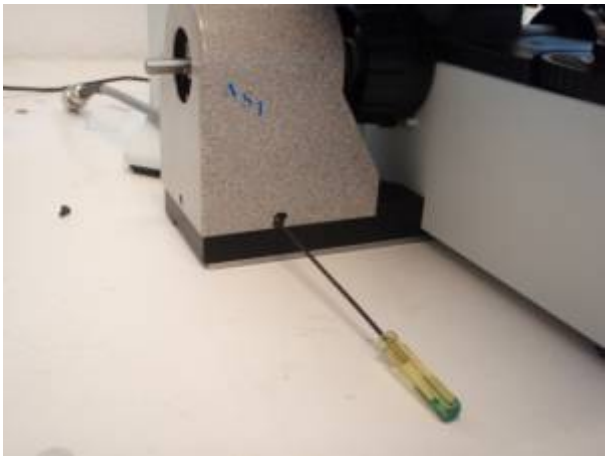
Use the 5/64” or 2 mm Allen wrench to securely tighten the flex coupler onto the ASI Z drive shaft. Please note that this screw must be securely tightened to prevent slippage.

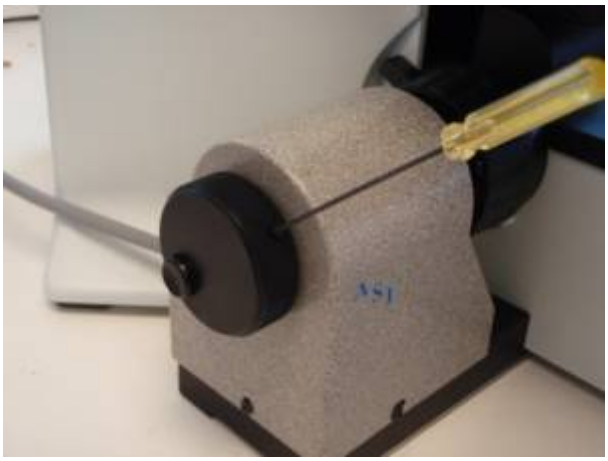
Part 4-Installing the motor drive cover plate & fine focus knob

a) Locate the motor drive cover. Remove the 4/40 button head screws from the drive with the 1/16 “ Allen wrench. Position the motor drive covert over the motor drive assembly and secure in place using the 4/40 button head screws.

b) Slide the new black microscope fine focus knob over the shaft extension and press it on all the way. Use the 1/16” Allen wrench to tighten the setscrews to secure the knob on the shaft.

This completes the procedure for installing the ASI motor drive on to the Olympus BX51\BX53 Microscope.





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