

How to fix the focus system of the microscope stage?

This instruction is for the repair of NIPON biological microscope with dual focus system. It may also be applicable to other types of microscopes with similar focus mechanism. It deals with the problem that the stage does not move up and down as the focus knob is turned. For more product information and user guide, please visit www.nipon-scope.com

1. Unscrew and open the bottom black cover of the microscope. You can find four screws inside, as shown in Figure 1 below.



Figure 1

2. Remove these four screws and carefully detach the metal base from the vertical column. You can then see a white wheel inside the column, indicated by the yellow arrow in Figure 2. It has become dislodged from the pin. To fix this, push this white wheel using a tool such as a screwdriver in the direction of the yellow arrow so that the wheel reattaches to the metal plate on the left, as shown in Figure 3.

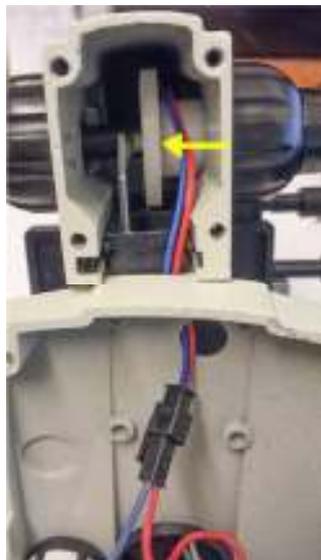


Figure 2



Figure 3

3. The wheel is now close and attached to the plate. You can now screw the cover back and the focus system should be back to normal.

User Instruction: How to prevent the gear system from being damaged?

- When adjusting the focus wheels of the microscope, please do not turn the wheel once the stage reaches its end of movement.
- Please use the objective lens marked with 4x magnification to get a slide into focus. You can then increase the magnification by rotating the objective lens marked with 10x. You only need to re-adjust the focus wheel slightly from its first position to see a clear image when the magnification is increased.
- When you choose the 40x objective lens, the focus position of the stage is not far from the point when the 10x lens is used. So you only need to adjust the stage height slightly. Please use the bottom light only and increase the light intensity when using the high magnification lens.
- Once the stage gets close to one end, please turn the wheel in different direction. This can prevent the focusing system from being damaged.

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