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# BASIC MICROSCOPY CONCEPTS

HOW TO AVOID REPAIRS



## HOW TO AVOID REPAIRS

We would like suggest some easy steps that will help you maintain the microscope in perfect conditions, and avoiding possible repairs. You might already know them, but we think it is good to refresh your memory from time to time.

## BEFORE USING THE MICROSCOPE

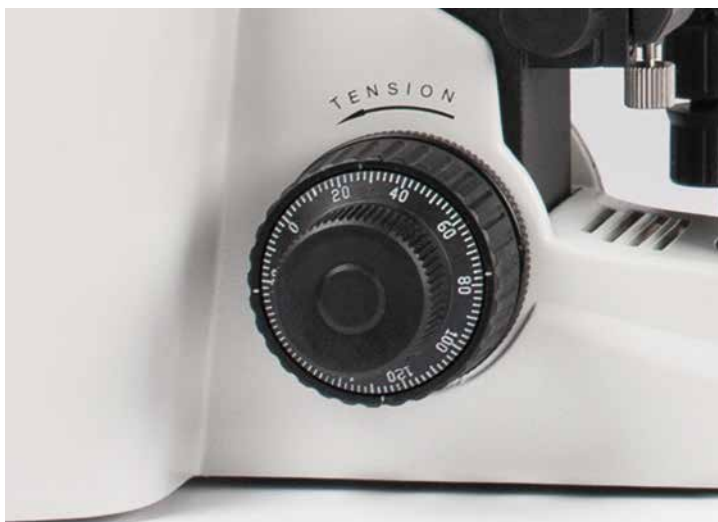
Read the instructions manual of the instrument carefully.

Never attempt to disassemble the parts of the instrument, other than the ones described on the manual.

Dust and dirt are two of the main causes for malfunction in a microscope.

Avoid placing the instrument in locations exposed to direct sunlight, dust, vibration, high temperature, high humidity and also where it is difficult to unplug the power supply cord.

Place it on a clean, stable and uniform surface.



## WHEN USING THE MICROSCOPE

Do not force any of the mechanical components, such as the focusing knobs:

- Do not rotate either the left or the right knob while holding the other.
- Do not turn the coarse and fine focusing knobs exceeding their limit.

Do not touch any of the lenses with bare fingers.

Immersion oil must be used sparingly, a single drop is enough. A correct use will avoid getting other components of the instrument dirty. Once the investigation is finished, the oil should be wiped off of the objective using a lens cleaning tissue, and the residual film removed with soft cloth moistened with petroleum benzine or absolute alcohol. The same procedure should be repeated on the specimen slide. By doing this you will avoid dirtying (and damaging) other objectives, especially the ones of high magnification (40X, 50X, or 60X).



#### AFTER USING THE MICROSCOPE

Adjust the light intensity control to the minimum before switching it off, this way when the light is turned back on, the bulb does not suffer any power surge. This will help you prolong the life of the bulb.

Place the objective with lower magnification on the optical path, it is the shorter one. This will avoid any contact with the stage, condenser or slide when using it again.

Cover the instrument with a vinyl dust cover.

#### WHEN NOT USED FOR A LONG PERIOD OF TIME

Store the instrument in a place with low humidity level, where mold is not likely to form, protected by its dust cover and - if possible - inside its transport box.

Store the objectives, eyepieces and filters in a container or desiccator with a drying agent.

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Design Change: The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress, without notice and without obligation.

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