

Datasheet

Microscope

RS Stock number [528-5290](#)



Description:

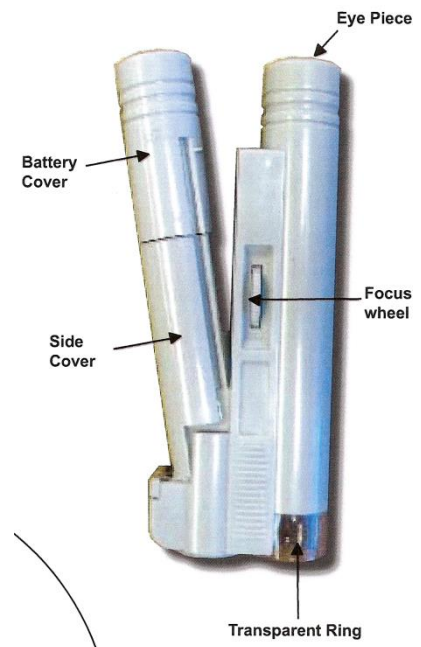
A compact, high quality, illuminated microscope has an ocular and objective optical system (40x magnification), adjustable focus and blue filtered illumination. Housed in an ABS body. Operated by 2 x 1.5V, AA batteries (not supplied).

Specifications:

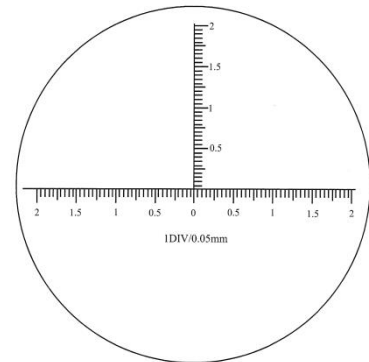
Battery Type:	AA
Magnification Power:	40
Scale Graduations:	0.05 mm
Model Number p:	59-675-040

Operation:

Pull tubes apart to switch on illumination.
Place transparent ring directly onto the surface to be viewed.
Look through eyepiece.
Adjust focus wheel to make image clear.
Align measuring scale with component image to be measured.
Read length of scale between the 2 points being measured.

**Reticule Scale:**

Horizontal Scale: 4 x 0.05 mm divisions
Vertical Scale: 2 x 0.05 mm divisions

**Battery Fitting:**

Pull the 2 tubes apart.
Push battery cover upwards to remove.
Insert 2 x AA batteries with positive ends towards bulb.
Replace battery cover.



Illumination:

Pull tubes apart to switch on illumination.
Push tubes together to switch off illumination.

**Replacing Illumination Bulb and LED:**

Fitting Replacement Bulb:-

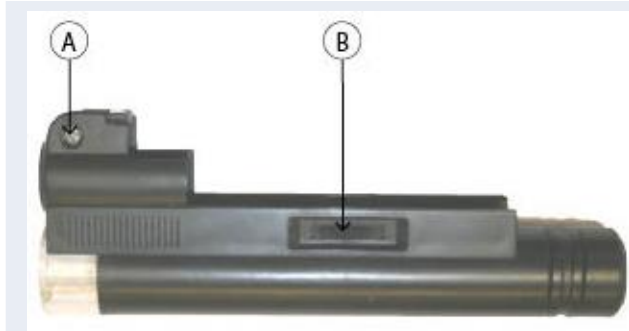
Bulb Code: 5285313 (2.2v x 2.5A)

Pull illumination tube from microscope body.
Remove battery cover and batteries.
Pull side cover away from body.
Pull out used bulb.
Replace new bulb.
Replace side cover.
Replace batteries and battery cover.
Locate side lugs of illumination tube into microscope body, and push firmly to snap back into position.

Fitting Replacement LED:-

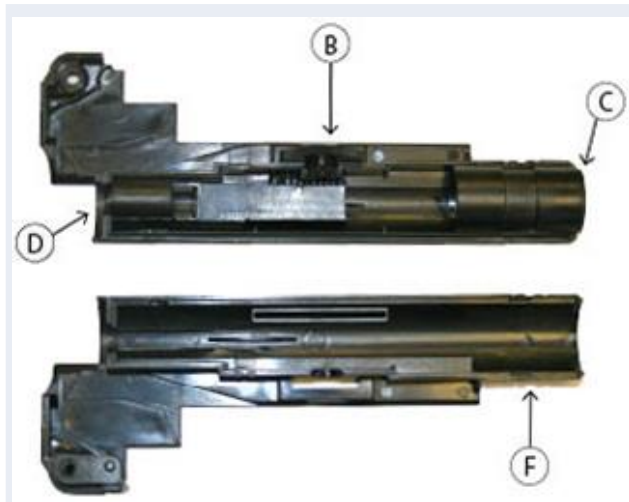
Pull illumination tube from microscope body.
Remove battery cover and batteries.
Pull side cover away from body.
De-solder faulty LED taking care not to melt any surrounding plastic parts.
Pull LED head from clear plastic mount.
Replace new LED in position, trim legs to length and solder each leg to contact connection.
Replace side cover.
Replace batteries and battery cover.
Locate side lugs of illumination tube into microscope body, and push firmly to snap back into position.

Cleaning Internal Lens Surfaces:



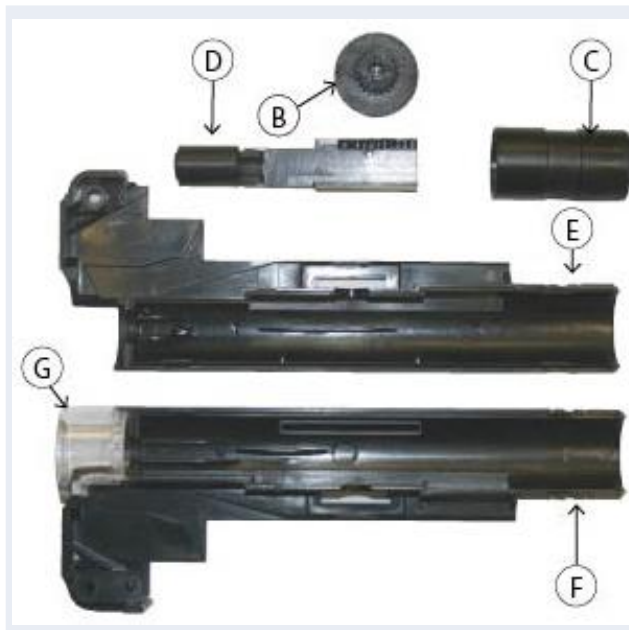
Assembly Parts:

- A: Fixing Screw
- B: Focus Wheel
- C: Top Lens with Scale
- D: Bottom Lens on Focus Carriage
- E: Half Body A for Focus Carriage Location
- F: Half Body B
- G: Clear Plastic Ring



Disassembly Instructions;

- 1 Remove Fixing Screw A
- 2 Carefully prise Half Body E and F apart
- 3 Remove Focus Wheel B
- 4 Remove Focus Carriage D
- 5 Remove Top Lens C
- 6 Remove Plastic Ring G (note position for later replacement)



Lens Cleaning:

With a soft clean dry cloth carefully remove any dust or marks from the top and bottom faces of both the Top Lens C and Bottom Lens D assemblies

Assembly:

- 1 Replace the Focus Carriage D in Half Body A
- 2 Replace The Focus Wheel B in the half hole in Half Body A ensuring that the gear wheel meshes correctly with the rack on the Focus Carriage D
- 3 Replace the Top Lens C in half Body A
- 4 Replace the Plastic Ring G in half Body A
- 5 Position Half Body F over Half Body E and clip together
- 6 Finally replace fixing Screw A
- 7 Reassemble Microscope for use