

SERVICE How To

Model Number: PS325 and PS335	Originator: P. van Poppel	Topic Replacing the Aperture Block
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Replacing the Aperture Block in a ProStar 325/335 detector

1. Ensure that the detector has been unplugged from the power outlet.
2. Remove the detector top cover.

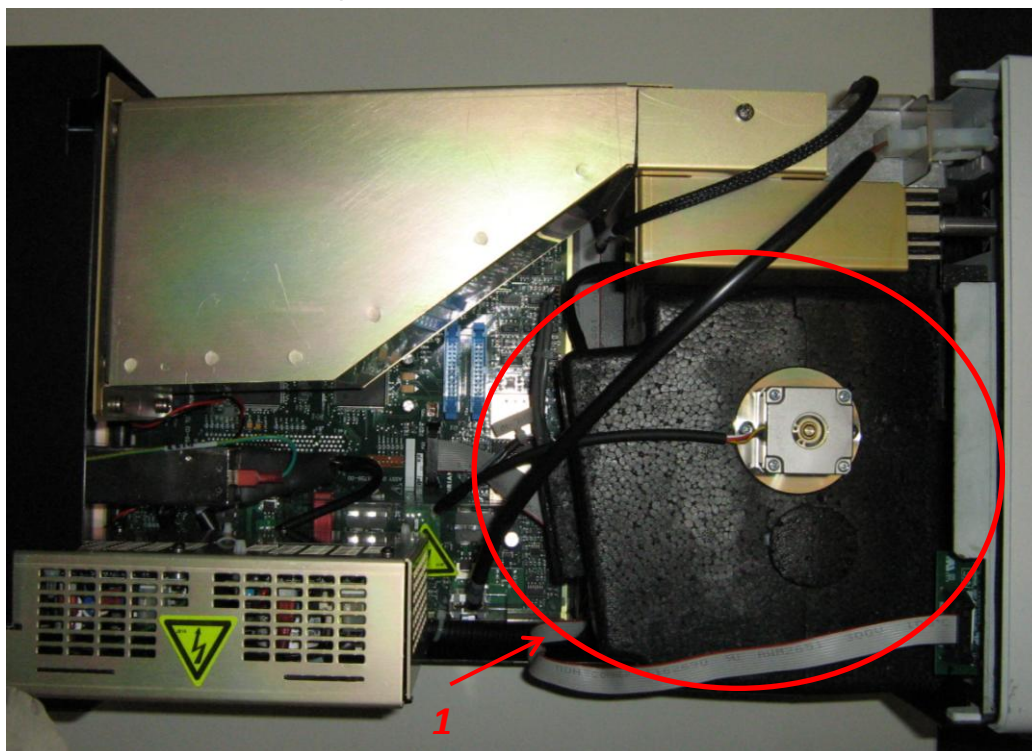


Figure 1: Optics Location in the Detector

3. Turn the unit in such a way that you can reach the 3 screws on the bottom holding the optics module (1) in the chassis (Figure 2).

4. Unscrew the 3 nuts (2) and remove the whole optics module (1).

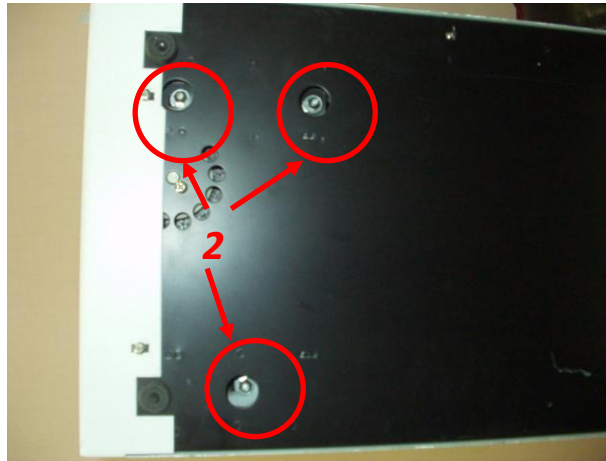


Figure 2: Bolts Holding in the Optics

5. Remove the tape and ties that hold the styrofoam optics surrounds together, then remove the flow cell surrounds and the styrofoam on the flow cell side.

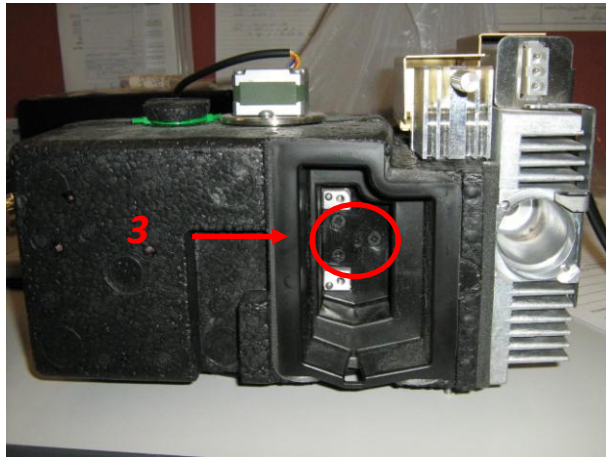


Figure 3: Screws Holding in the Flow Cell Surrounds

6. Remove the Aperture protection barrier (4) by gently pulling it towards the front.



Figure 4: Aperture Protection Barrier

7. Remove the Aperture Holding Screw (5) on the front of the Aperture Block, insert the Removal Tool dowel in the mirror opening on the side (6) and gently lever the aperture block out of its position, by moving the tool handle upwards.

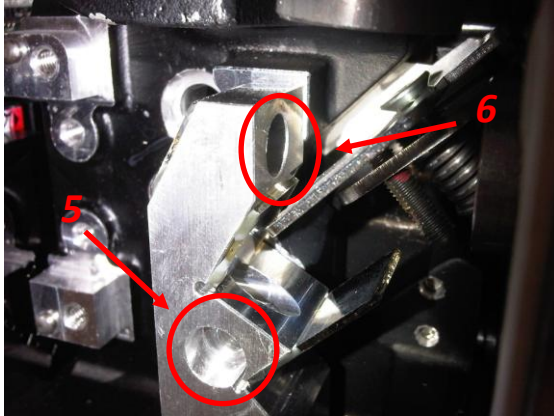


Figure 5: Aperture Block

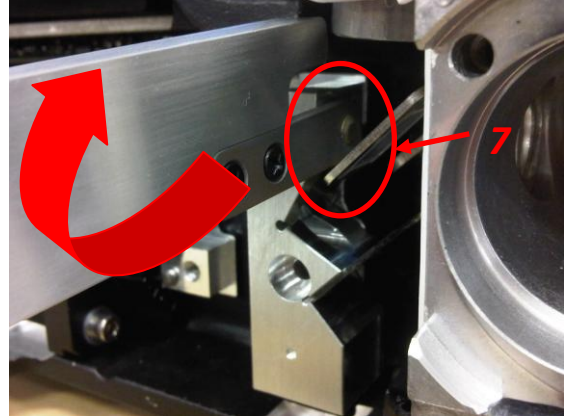
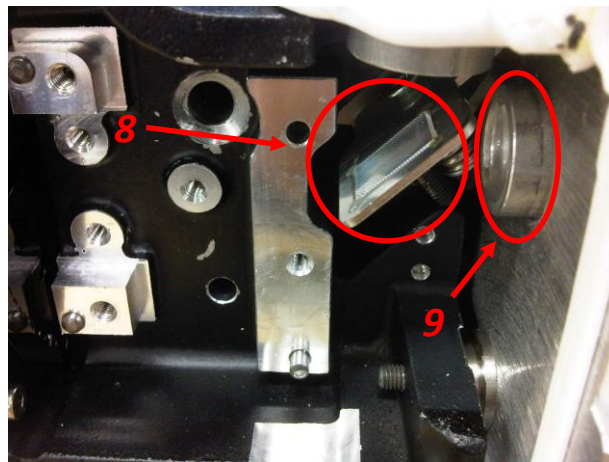


Figure 6: Removal Tool

8. Once the Aperture Block is removed, it may be necessary to gently clean the beam splitter (8) and the D2 focusing lens (9) with some methanol.



9. Carefully place the replacement Aperture Block in the optics where the old one was removed. By refitting the Aperture Holding screw and gently tapping the aperture assembly, mount the Aperture Block perfectly straight into its place.
10. Then re-fit the aperture protection barrier, the styrofoam and the flow cell surrounds, and close the detector.
11. Perform a lamp calibration in LCVerify or PolyVerify and test the work by running a Wavescan.

(Please note that not all aperture block replacements will be successful. If not successful, the optics module will need to be replaced)