



VARIAN

SERVICE How To

Number: SHT-PS335-10

Date: March 23, 2007

Pages: 5

Model Number:	Originator:	Topic
PS 335 DAD	Des Wichems	Installing a New Optics Module

Installing New Optics Module

- 1) Ensure that the power cable has been disconnected from the detector
- 2) Open the detector top cover and remove it.

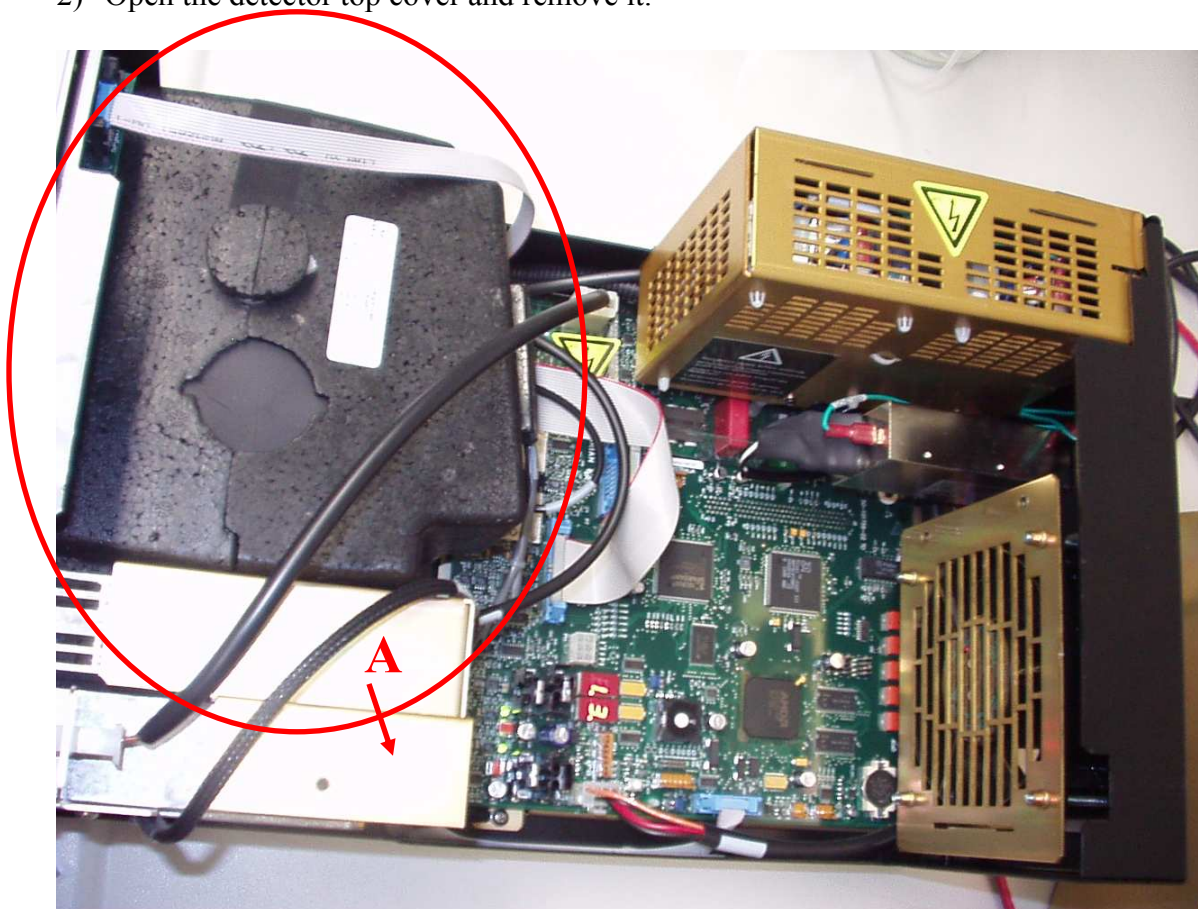


Figure 1: Location of the Optics Module

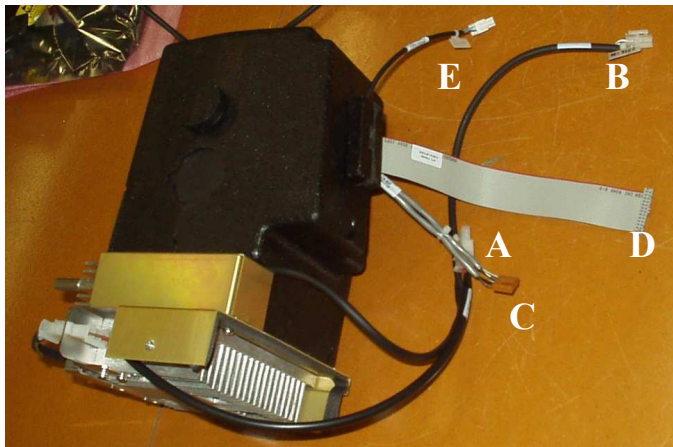
- 3) Turn the unit in such a way that you can reach the 3 screws on the bottom holding the optics module (A) in the chassis (Figure 2).

- 4) Unscrew the 3 nuts (B) and remove the whole optics module A.



Figure 2: Mounting Screw Location on the Optics

- 5) Once you have removed the old optics module, replace the new optics module by reversing the order of steps 1-3.
- 6) Make sure that you connect all the power leads and cables (Figure 4).



- (A) UV Power connects to P15
(B) Vis Power connects to P16
(C) Detector board connects to P13
(D) Array connects to P8
(E) Slit motor connects to P17

Figure 3: Cables on the Optics Module

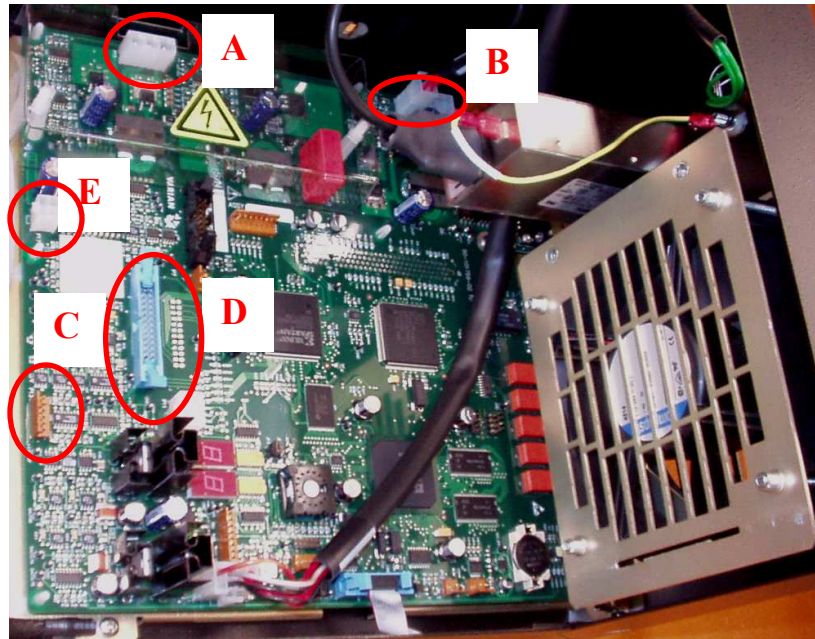


Figure 4: Optics Cable Connection Points on the Main Board

- 7) Once the detector is bolted into the detector housing and the electronic connects have been made, then connect to PolyVerify (Figure 5) and go to the Diagnostics section (Ctrl-Shift-F10).

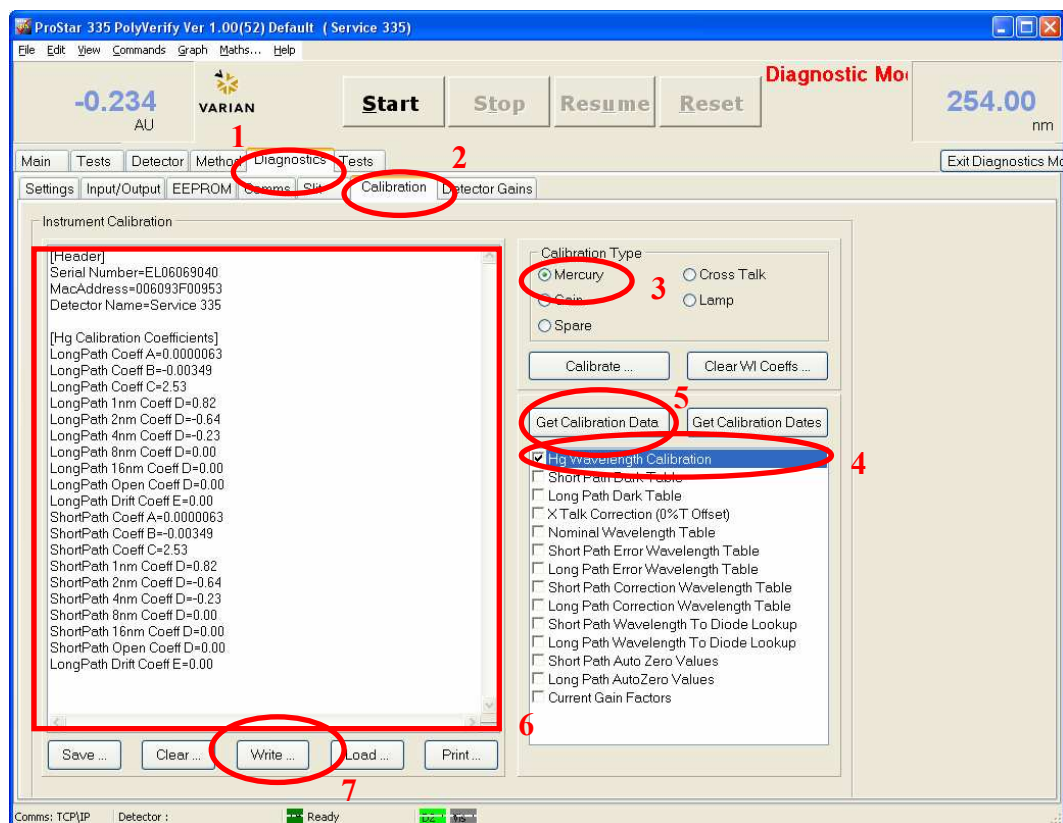


Figure 5: PolyVerify Screen Capture

- 8) In the Diagnostics section (1), go to the *Calibration* (2) tab, and select *Mercury* (3) as the Calibration Type. Select the *Hg wavelength option* (4) and then and load the Calibration data by pressing the *get Calibration data* (5) button.
- 9) Once the calibration data has been loaded, you will see all the coefficients displayed in the Instrument Calibration window (6)
- 10) Click on the *Write* button (7), to update the Hg calibration with the coefficients on the sticker (8) of your optics module shown below.



Figure 6: Calibration Coefficients on the Optics

- 11) The sticker will show 2 sets of coefficients for Variables A, B, C. If you have a single array detector, you will have all your SP coefficients equal to 0 (since you don't have that array). Insert the sticker coefficients into the Instrument Calibration table (9) (Figure 7).

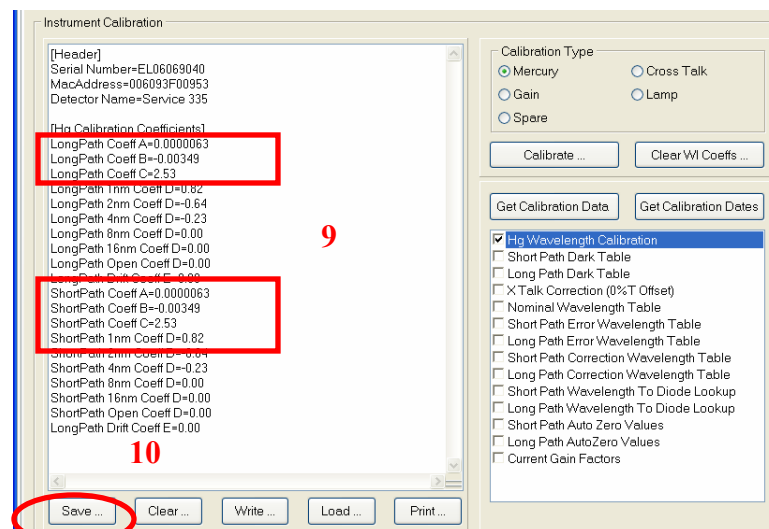


Figure 7: Location of the Calibration Coefficients

- 12) Click on the *Save* (**10**) button to save the new Hg Calibration file.
- 13) Do a lamp Calibration (Can also be done in Galaxie or Star)
- 14) Follow the installation tests as needed.