

9480 Carroll Park Dr., San Diego, CA 92121-5201  
Phone (858) 657-9800 Fax: (858) 657-9818 Toll Free 1800 324-5190  
E-mail: [api-customerservice@teledyne.com](mailto:api-customerservice@teledyne.com) <http://www.teledyne-api.com>

11-002A

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## Installing a reference scrubber in an M465L NEMA Instrument



The electronics used in T-API analyzers are sensitive to Electrostatic Discharge (ESD). When working on any T-API device, please ensure that you are properly grounded prior to handling or touching any electronic circuitry in the analyzers! For more information on how to protect sensitive components from ESD during handling, please contact T-API customer service and ask for the ESD Service note number 03-022A.

### Tools Needed:

Snub nose flathead screwdriver  
Philips screwdriver  
Pliers

### Procedure

1. Locate the sensor module located on figure 1.

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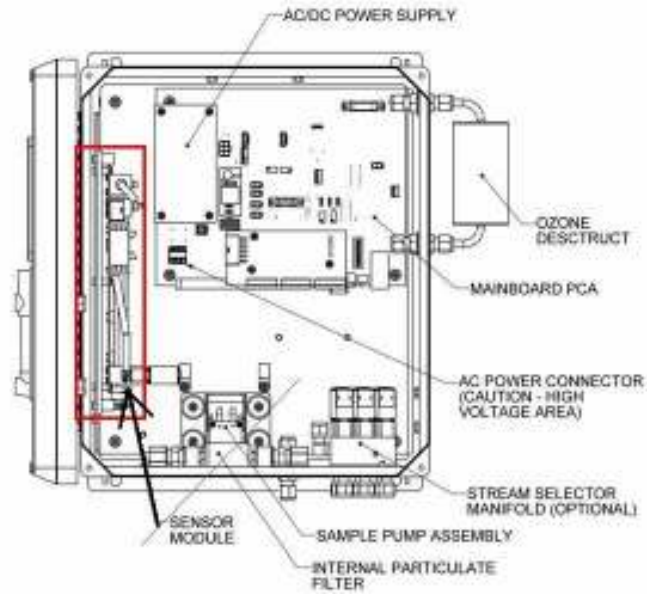


Figure 1.

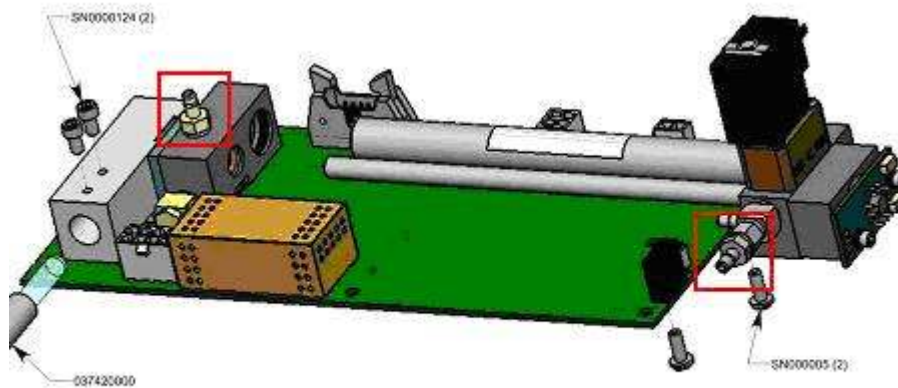


Figure 2.

2. Locate and disconnect the cables and pneumatics on the sensor module shown in figures 2 and 3.

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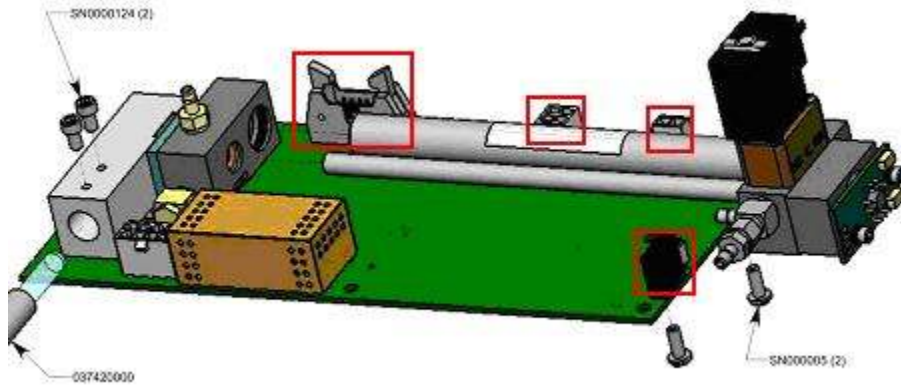


Figure 3.

3. Locate the four screws securing the sensor to the chassis shown in figure 4 and unscrew them.

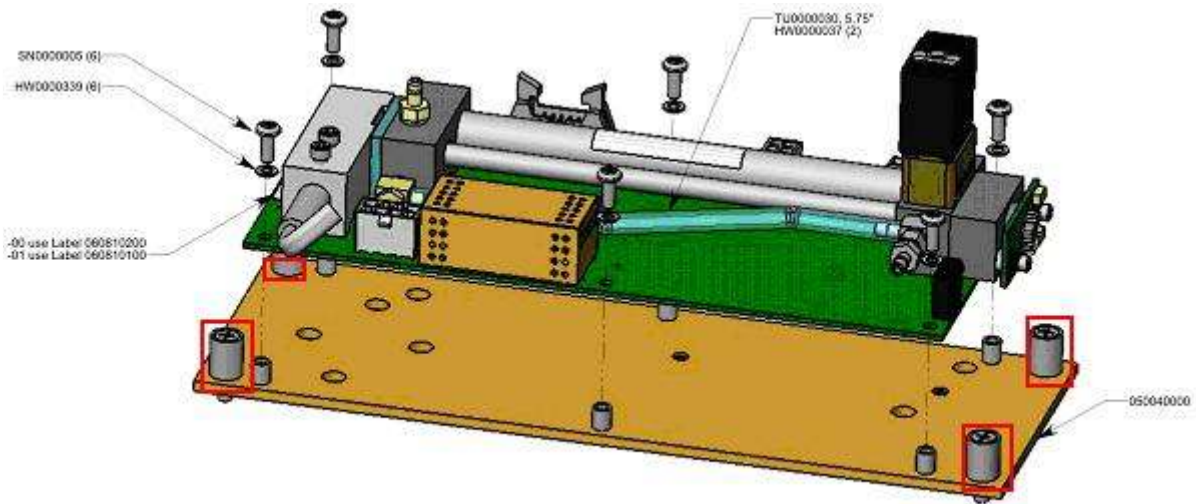


Figure 4.

5. Locate the manifold mounting screws on the back of the sensor module on figure 5.

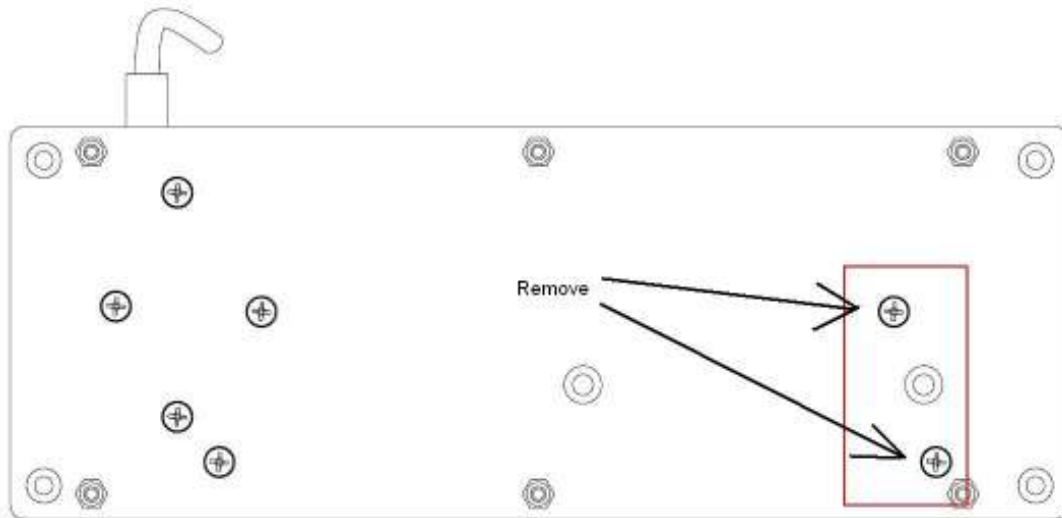


Figure 5.

6. Keeping a hold on the inlet manifold shown on figure 6 that you are unscrewing, remove the screws and gently pull the manifold away from the absorption tube, and reference scrubber.

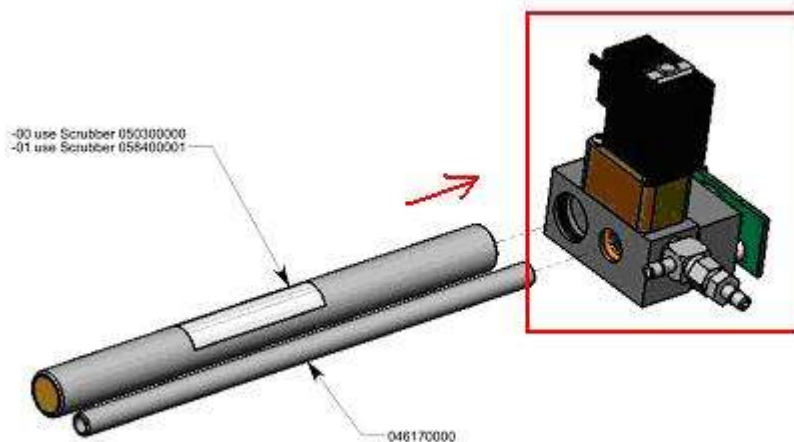


Figure 6.

7. Re-install the new high reference scrubber in place of the old scrubber insuring that the tube is firmly pressed inside the exhaust manifold groove. After the tube is in place, re-seat the inlet manifold marked in figure 6 firmly against the absorption tube, and the scrubber so that the manifold screw mounts can again align with the PCB holes. Tighten the screws snugly in place.

8. Reconnect the sensor assembly to the chassis, and reconnect the cables shown in figure 2 and 3.

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