

392 Micro-Ion[®] Plus Gauge Removal and Replacement Procedure

GRANVILLE-PHILLIPS[®]

Service Bulletin



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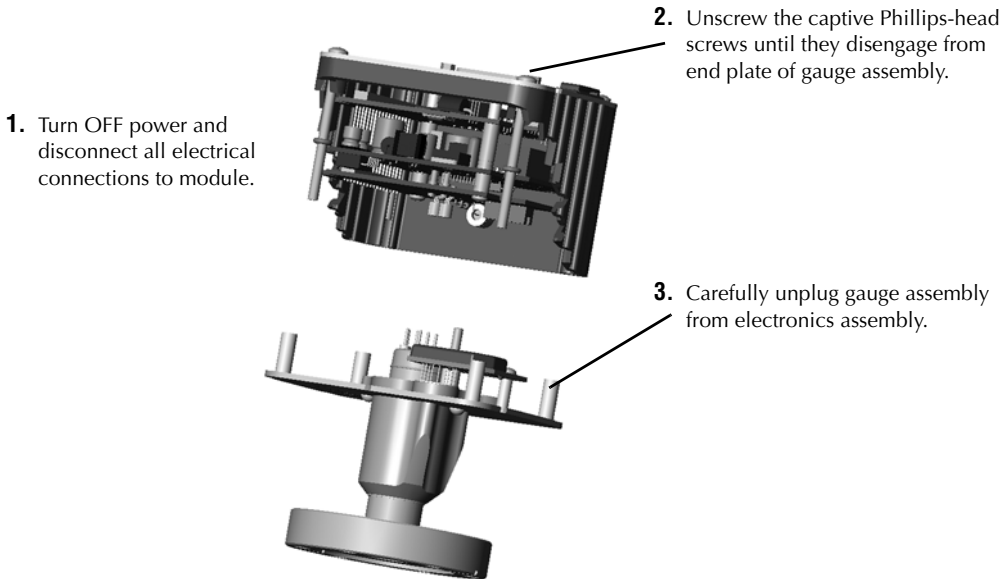
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Removing the gauge assembly

Do not plug in or unplug any connectors with power applied to the module. Disconnect power from the module before replacing the gauge assembly.

1. Turn OFF power and disconnect all electrical connections to the Micro-Ion Plus module.
2. Unscrew the four captive Phillips-head screws until they disengage from the end plate of the gauge assembly. See Figure 1.
3. *Carefully* unplug the electronics assembly from the gauge assembly.

Figure 1 Removing Micro-Ion Plus gauge assembly



Replacing the gauge assembly

1. Turn OFF power and disconnect all electrical connections to the Micro-Ion Plus module.
2. Disconnect the module from the vacuum chamber.
3. Unscrew the four captive Phillips-head screws until they disengage from the end plate of the gauge assembly. See Figure 1.
4. *Carefully* unplug the electronics assembly from the gauge assembly.
5. Insert the new gauge assembly into the electronics assembly by gently inserting the gauge pins into the socket on the circuit board. Examine the gauge pin arrangement to make sure the replacement gauge assembly and electronics assembly are aligned.
6. Tighten the four Phillips-head screws.
7. Install the module on the vacuum chamber.

Micro-Ion Plus gauge calibration

To ensure proper performance, the atmospheric pressure calibration of the Conductron sensor should be reset, using the process gas, once the module has been installed and is still at atmospheric pressure. Periodic resets of the atmospheric pressure calibration point will improve the accuracy and repeatability of the Conductron sensor near atmospheric pressure.

Ordinarily, the Conductron sensor turns the Micro-Ion gauge ON when pressure decreases to 2×10^{-2} Torr (2.66×10^{-2} mbar, 2.66 Pa). However, if the Conductron sensor calibration has shifted so that the Micro-Ion gauge cannot turn ON, you can recalibrate the module for vacuum pressure.

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