



356 Micro-Ion® Plus Gauge Removal and Replacement Procedure

GRANVILLE-PHILLIPS®

Service Bulletin



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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 Micro-Ion gauge.

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

Figure 1 Removing the gauge, Step 2



Figure 2 Removing the gauge, Step 3; Replacing the gauge, Step 1

While removing gauge, *carefully* unplug module electronics from gauge.

While replacing gauge, align gauge pins with circuit board socket, then *carefully* insert gauge pins into socket.

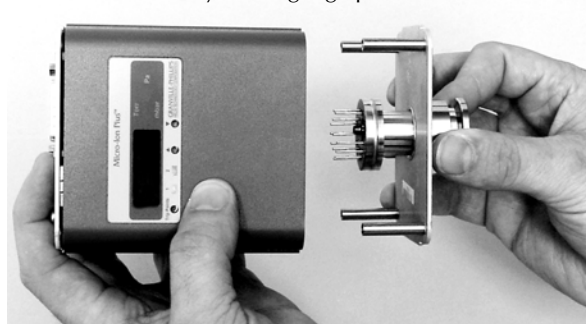
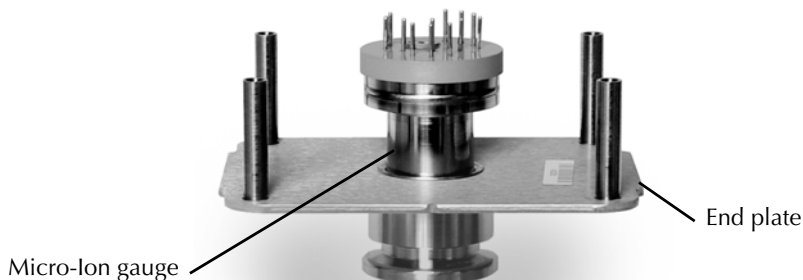


Figure 3 Micro-Ion Plus replacement gauge**Replacing the gauge assembly**

1. Align the gauge pins with the socket in the circuit board, then *carefully* insert the new gauge into the module. See Figure 2.
2. Tighten the four Phillips-head screws.
3. Install the module on the vacuum system.

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. To perform the atmospheric pressure calibration, press the ATM (or CAL) button or toggle pin 9 on the 15-pin subminiature D connector while atmospheric pressure is higher than 400 Torr (533 mbar, 5.33 kPa).

Ordinarily, the Conductron sensor turns the Micro-Ion gauge ON when pressure decreases to 2.0×10^{-2} Torr (2.66×10^{-2} mbar, 2.66 Pa). If the Conductron sensor calibration has shifted so that the Micro-Ion gauge cannot turn ON, you can recalibrate the module for vacuum pressure. To perform the vacuum pressure calibration, press the ATM (or CAL) button or toggle pin 9 on the 15-pin subminiature D connector while pressure is lower than 1×10^{-4} Torr (1.33×10^{-4} mbar, 1.33×10^{-2} Pa).

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