Agilent G4367A Auxiliary Electronic Pressure Control (Aux EPC) Module
For the Agilent 5975T LTM-GC/MS system
Installation Guide

Parts Supplied

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Parts supplied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Quantity</td>
</tr>
<tr>
<td>Aux EPC module</td>
<td>1</td>
</tr>
<tr>
<td>EPC holder</td>
<td>1</td>
</tr>
<tr>
<td>Bulkhead assembly</td>
<td>1</td>
</tr>
<tr>
<td>EPC cover (for new design)</td>
<td>1</td>
</tr>
<tr>
<td>Screw M4x10</td>
<td>2</td>
</tr>
<tr>
<td>Screw M4x6 (for new design)</td>
<td>1</td>
</tr>
<tr>
<td>Retainer B (for old design)</td>
<td>1</td>
</tr>
<tr>
<td>Retainer (for new design)</td>
<td>1</td>
</tr>
<tr>
<td>Captive Screw M4x0.7x12MM (for old design)</td>
<td>1</td>
</tr>
<tr>
<td>Tie</td>
<td>3</td>
</tr>
<tr>
<td>Label (only for old design)</td>
<td>1</td>
</tr>
</tbody>
</table>

Parts Identification
Tools Required

- T-10 and T-20 Torx drivers
- Wrench open-end, 7/16-inch and 1/2-inch (8710-0806)

Installation Procedure

This procedure explains how to install the auxiliary pressure control (Aux EPC) module accessory on the Agilent 5975T LTM GC/MSD. This accessory can be used to add one electronically-controlled gas streams to the GC.

**WARNING** Refer to the Safety Manual that came with your Agilent 5975T LTM-GC/MSD for hazards that may exist when maintaining your instrument.

Prepare the GC

1. Vent the instrument. (Refer to G4360-90007 Agilent 5975T LTM-GC/MSD Operational Manual for venting the MSD.)
2. Turn off the GC and unplug the power cord.
3. Remove the Analyzer Top Cover (See Figure 2)
   a. Open the Local Control Panel (LCP)/Analyzer window.
b. Loosen the two captive screws on the front bottom left and top right corners of the cover, inside the LCP opening.

c. Slide the cover forward until it is free of the mainframe, and lift it off the instrument.

![Removing the Analyzer Top Cover](image)

**Figure 2** Removing the Analyzer Top Cover

4. Open the LTM/Guard Column Enclosure Door
   a. Push on the latch under the bottom left corner of the door to the LTM/guard column enclosure and open the door.

5. Remove the Small Top Cover.

6. Remove the Main Cover
   a. Remove 4 screws from the GC side. (See Figure 3)
   b. Loosen 3 screws in blue circles from MSD side. No need to remove them.
   c. Remove 3 screws in red circles. (See Figure 4)
   d. Loosen the screw on the back side. (See Figure 5)
   e. Remove the Main Cover.
Figure 3  Removing 4 screws from GC side

Figure 4  Loosing 3 screws and remove 3 screws

Figure 5  Loosing the screw on the back side

7. Remove the Fan (See Figure 6)
   a. Remove the two screws in the red circles from the fan
   b. Disconnect the fan power cable.

Figure 6  Removing the fan
8. Remove the Bulkhead Assembly (See Figure 7)
   a. Loosen the cap in the blue circle.
   b. Remove two screws in the red circles.

Assemble the Aux EPC

1. Install the Aux EPC holder (See Figure 8)
   a. Put the EPC holder at the empty location.
   b. Tighten two screws (M4x10) in the red circles.

2. Install the Aux EPC (See Figure 9)
   a. Connect the communication cable.
   b. Slide the Aux EPC module into the EPC holder.
      Arrange the cable to prevent it from being pinched by
      the Aux EPC.
   c. Attach the EPC module bracket by tightening the screw (M4x6).
3. Install the Bulkhead assembly (See Figure 10)
   a. Tighten two screws in the red circles.
   b. Connect the nuts in the blue circles. Make sure the Inlet In tubing connects to the Inlet EPC and the Aux In tubing connects to the Aux EPC Channel 1.

4. Attach the tubing block to the manifold (See Figure 11)
   a. Remove the tubing connector blank from Aux EPC Channel 1.
   b. Attach the tubing block to manifold and tighten two screws.
5. Attach the tubing by the provided ties (See Figure 12)

Figure 11 Attaching the tubing block

Figure 12 Attaching the tubing

**Restore the GC to operating condition**

1. Replace all instrument covers in the reverse order in which they were removed.
2. Install the provided EPC Cover.
3. Plug in the GC and turn on the power. (Refer to G4360-90007 Agilent 5975T LTM-GC/MSD Operational Manual for turning on the GC/MSD.)
4. Connect the source gas lines to the Bulkhead assembly.
5. Turn on gas pressure and leak check all fittings.
6. On your PC, update your 5975T LTM-GC/MSD firmware to the latest version.
7. Click the provided APC Setup.exe in your CD to install Agilent 5975T LTM GC/MSD Aux EPC Setup Tool.
8. Input IP address and then click install to configure the Aux EPC. And click remove can uninstall the Aux EPC from the instrument. (See Figure 13)

![Image](Image.png)

**Figure 13** Install/remove the Aux EPC

9. Select the Aux EPC gas type on Agilent MSD Chemstation > Edit GC Parameters > Configuration > Modules. (See Figure 14)

![Image](Image.png)

**Figure 14** Selecting the Aux EPC gas type

10. Set the gas flow on Edit GC Parameters > Columns > Show All Flows > Aux EPC 1. (See Figure 15/16)
Figure 15  Showing the Aux EPC Control Mode

Figure 16  Setting the Aux EPC gas pressure
Consumables and Replacement Parts

See table 2 for Aux EPC commonly-used consumable and replacement parts.

<table>
<thead>
<tr>
<th>Consumable and Replacement Parts</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet bulkhead fitting</td>
<td>G4367-20020</td>
</tr>
<tr>
<td>Inlet bulkhead</td>
<td>G2630-80540</td>
</tr>
<tr>
<td>AUX block weldment Assy</td>
<td>G3430-60550</td>
</tr>
<tr>
<td>Nut Hex</td>
<td>2950-0203</td>
</tr>
<tr>
<td>EPC cover (Small Top GC Cover) For New designed 75T</td>
<td>G4360-00765</td>
</tr>
<tr>
<td>EPC cover (AUX EPC version) For New designed 75T</td>
<td>G4367-00020</td>
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Warranty

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