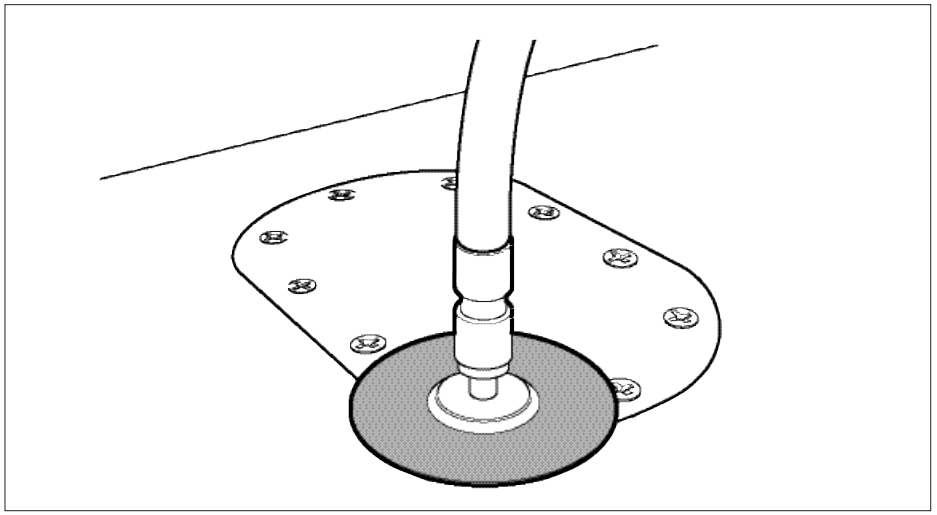
Instructions

INJECTION PAD



The gas injection pad is designed primarily for the aerospace industry. The main application is back tracing of fuel entry point of fuel system leaks.

The exit point of a leak is typically found through visual inspection. The pad is attached over the exit point, allowed to set for a few minutes and then gas is injected. The entry point is then located inside the fuel compartment using the Extrima Hydrogen Leak Detector.

Locating Procedure overview:

- Clean exit area
- Apply pad
- Wait for pad to adhere
- Purge gas line
- Inject gas
- Wait for gas to clear path to entry point
- Locate leak with Extrima Hydrogen Leak Detector

IMPORTANT: See details on next page!

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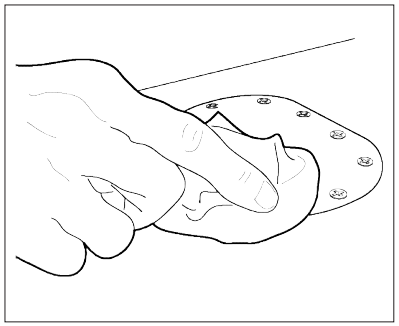
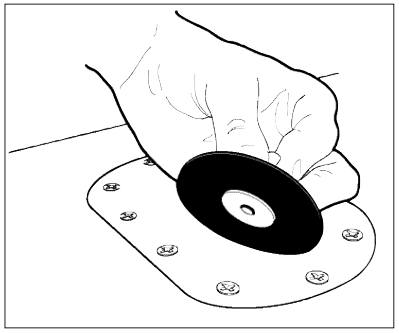
1. Application of pad

1.1 Carefully clean the area around the exit point with isopropyl alcohol or similar approved solvent.

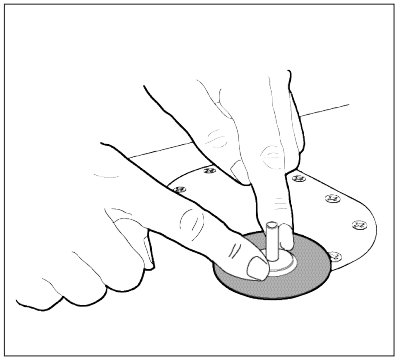


1.2 Peel off the backing paper from the pad.

1.3 Centre the pad over the exit point and roll down the pad starting at one edge. It is very important that the tape ring comes down flat on the surface, without creases or bubbles.



1.4 Press firmly around the entire tape ring. Work around the ring several times.



1.5 Leave the pad to set for at least 10 minutes before purging and injecting gas.

Application temperature should be within 0–60°C / 32–140°F. Ideal temperature is 15–50°C / 59–122°F. Heat surface before application if necessary.

2. Setting up gas supply equipment

2.1 Before fitting the regulator to the gas bottle, make sure that the bottle is protected and cannot fall. Do not transport the gas bottle with regulator fitted!

2.2 Fit the pressure regulator to the bottle. See manufacturer's instructions for details.

A two stage regulator with 0–1 bar / 0–15 psi output pressure is recommended.

2.3 Connect a suitable length of supply hose to the output of the regulator. Use 4 mm or 5/32" outer diameter pneumatic tubing (PA or PUR).

2.4 Connect the white push-in fitting delivered with the pads to the other end of the supply hose.

Leave the push-in connector on the supply hose after you have finished the job.

3. Injecting gas

IMPORTANT! You must purge the supply hose before connecting it to the pad. Follow the instructions below carefully every time you connect.

3.1 Back off the regulator to zero output pressure.

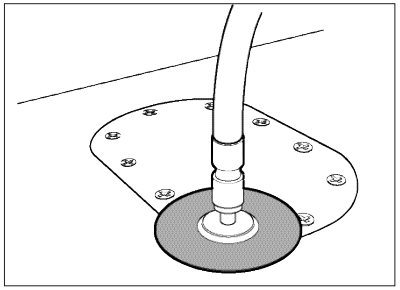
3.2 Open the main valve on the gas bottle.

3.3 Grab the open end of the supply hose and increase the output pressure to create a small flow through the hose.

3.4 Purge the hose for a couple of seconds.

3.5 Cover the open end with your thumb and turn regulator output pressure down to stop flow.

3.6 Immediately connect hose to pad by pushing connector down over the white pipe in the centre of the pad.



3.7 Increase output pressure slowly to desired pressure (max 0.5 bar / 7.2 psi).

3.8 Check that pad is not peeling off. If so, reduce pressure and press pad back in place again.

3.9 Wait for gas to clear path to entry point.

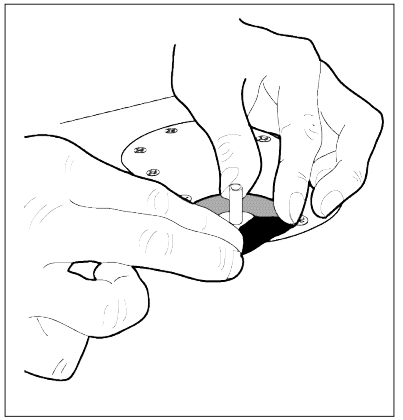
3.10 Locate leak with Extrima Hydrogen Leak Detector.

• IMPORTANT! Check that the pressure is not increasing with time. This is common for single stage regulators in low or no flow applications.

If this is the case you can handle it by creating a small leak in the regulator end of the hose

4. Removal of pad after test

The adhesion of the pad will increase with time over the first day or two. Do not leave the pad on longer than necessary.



4.1 To minimize risk of damage to paint start peeling at the outer edge.

4.2 Roll the pad off the surface.