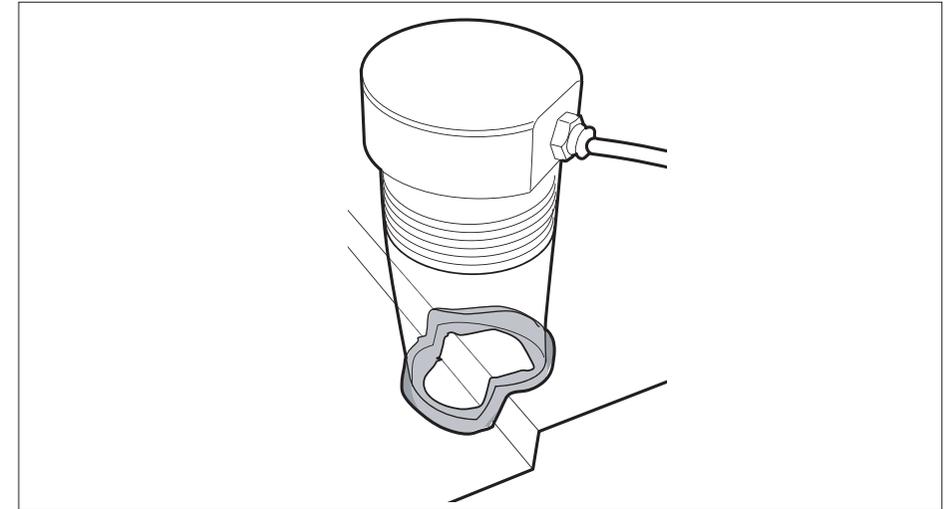


Instructions

INJECTION FIX KIT



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The gas Injection Fix Kit 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 Injection Fix Kit 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 plastic tube
- Wait for Injection Fix Kit 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!

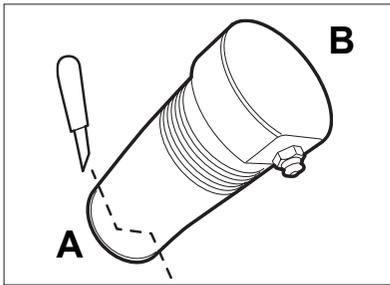


1. Application of plastic tube

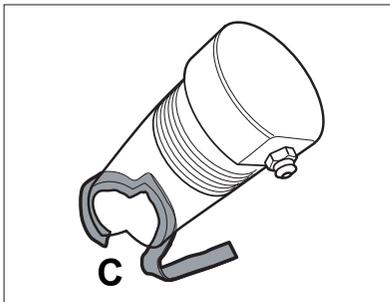
1.1 Carefully clean the area around the exit point with isopropyl alcohol or similar approved solvent.

1.2 Cut one end of the plastic tube (A) to make it fit against the exit point surface.

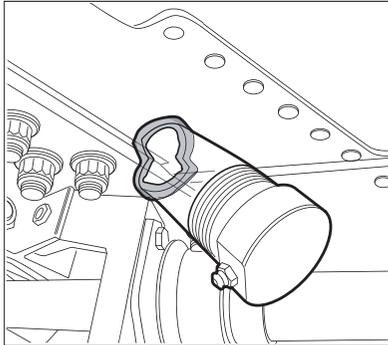
1.3 Press in an Injection Plug (B) in the other end of the tube.



1.4 Cut off a piece of Sealant Tape (C) and fix it around the open end of the tube, as a seal.



1.5 Centre the plastic tube over the exit point (D). It is very important that there are no openings between the tube and the surface.



1.6 Leave the Injection Fix Kit 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 Injection Fix Kit to the other end of the supply hose. Leave the white push-in fitting 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 Injection Fix Kit. Follow the instructions below carefully every time you connect.

3.1 Back off the regulator to zero output pressure.

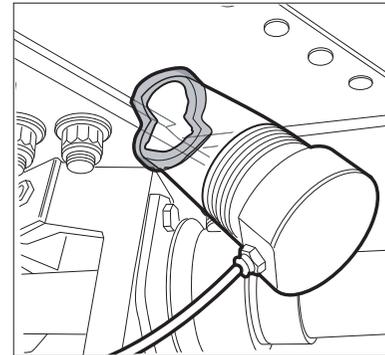
3.2 Open the main valve on the gas bottle.

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 (E) to Injection Fix Kit.



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

3.8 Check that the Injection Fix Kit is still fixed and does not leak. If so, reduce pressure and press it 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 Injection Fix Kit after test

4.1 The adhesion of the Sealant Tape will increase with time over the first day or two. Do not leave the Injection Fix Kit on longer than necessary.