



SERVICE BULLETIN

SB-42-021-2019 Silicone hose at manifold pressure point

Date published: Juni 2019 Effectivity: from 03 June 2019

Subject

Check the silicone hose at the manifold pressure point and replace it with a petrol and lubricant hose (Tygon®). When inspecting a C42 aircraft with a built-in manifold pressure indicator, a damaged silicone hose was discovered in the area of the manifold pressure decrease.

Applicable

All IKARUS C42 with manifold pressure indicator up to serial number 1808-7544. Vapour deposits from liquids such as oil and fuel can cause the silicone hose to tarnish, attack the material and damage the hose at the connection point.

Deadline

Check on next pre-flight check.
Next annual or 100h check, depending on which event occurs earlier.

Impact on Airworthiness

If the hose is damaged, the function of the manifold pressure indicator is impaired or may lead to failure of the indicator. The engine loses speed in the low speed ranges, which may result in engine failure.

Classification

„Service Bulletin“.

Weight and Balance

No effects.

Electrical Load

No effects.



SERVICE BULLETIN

SB-42-021-2019 Silicone hose at manifold pressure point

Date published: Juni 2019 Effectivity: from 03 June 2019

Required Actions

Service level	Simple
Qualification	Qualified person
Required tool	Access to affected component according to maintenance manual; side cutter.
Required materials	Petrol and lubricant hose (Tygon®) 4.8 x 8.0 mm (4.8 mm inner diameter); cable tie, heat-resistant; hose connection union nut (plastic, blue) with approx. 7 mm inner diameter

(a) Inspection

Visual inspection of the silicone hose in the engine compartment for damage.

(b) Repair

Recommended: Replacement of the hose connection between the manifold pressure decrease at the engine and the manifold pressure indicator in the cockpit.

Disassembly of the silicone hose between manifold pressure decrease at the connecting pipe of the intake manifold and manifold pressure indicator in the cockpit. The new hose should be installed in the same way as the old silicone hose. The fixation of the new hose at the manifold pressure decrease at the engine should be secured with a heat-resistant cable tie. Care should be taken that the cable tie is tight but does not cut into the hose. The new hose is fixed to the manifold pressure indicator in the same way as the old one with a union nut (plastic, blue, drilled to approx. 7mm).

Finally, the hose connection should be checked again for its tight fit at the connection points. The hose should be fixed with heat-resistant cable ties if the newly established connection can abut or rub against adjacent parts. Following the repair work, a test run with a check of the manifold pressure indicator is recommended. The entry of the action taken will be recorded in the machine's operating records. A complete repair kit can be obtained from COMCO IKARUS GmbH.

(c) Manual Supplement

None