VAN'S AIRCRAFT
TOTAL PERFORMANCE

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SERVICE BULLETIN 00006

Date Released: May 6th, 2020

Date Effective: May 6th, 2020

Subject: Potential leaking of Kavlico pressure sensors

Affected Models: RV - ALL

Aircraft using affected Kavlico pressure sensors with a pressure rating of 15 PSI and above. These sensors are commonly used in fuel, oil and manifold pressure applications.

Affected Kavlico sensors may be identified via the following third-party service information documents, which are incorporated here by reference:

Dynon Service Bulletin 050620E
Advanced Flight Systems Service Bulletin 050620A
Garmin Service Bulletin 2069 Rev A (SB2069A)

Required Action: See referenced third-party service information

Time of Compliance: See referenced third-party service information

Supersedes Notice: None

Labor Required / SLSA Warranty Allowance: 2.0 Hours (if replacement is required)

Level of Certification: SLSA: LSA Repairman Maintenance or A&P
EAB/ELSA: Owner (certification not required)
Check the rules of the local controlling authority/agency and the operating limitations for your aircraft.

Synopsis:

Read the referenced service information documents from Dynon and Garmin, as applicable to your aircraft equipment installation.

As indicated in the referenced third-party service bulletins, a small number of installed Kavlico pressure sensors have developed leaks. The exact cause (manufacturing,

installation, fatigue etc.) of the failures has not been determined. Both avionics system manufacturers continue to gather failure-related data.

Using the referenced third-party service information, determine your level of risk and act accordingly. If corrective action is necessary, follow the recommendations of the manufacture to identify the best sensor for replacement.

Sensors must be installed by torqueing the metallic (brass or steel) hex portion of the sensor not the black plastic electrical connector.

Failure of the sensors and resulting leaks have occurred in manifold pressure, fuel and oil applications. Leaks have appeared at the junction of the metal base and the plastic portion of the sensor and/or through the electrical connector. A leaking sensor body could result in a pressurized spray, reaching other nearby components of the aircraft.

Fuel and oil leaks may result in power loss or fire. When a sensor measuring the pressure of combustible fluids is installed in an area that also includes a potential ignition source (including but not limited to firewall-forward locations) the potential for a fire exists in the event of a sensor failure/leak. Although Van's Aircraft recommends the installation of restrictor fittings in fuel and oil pressure lines to help reduce risk of high-volume fluid leaks, it remains important to note that any combustible material leak from a sensor in an environment that includes a source of heat sufficient to cause combustion poses a potential significant risk.

Materials Required:

See the referenced service information.

Method of Compliance:

Step 1: Follow guidance found in the referenced service information from your avionics manufacture.

Step 2: The following KAI pages reference the sensor installation. Make sure to check for and download the latest plans page updates from the Van's Aircraft service information page for your model of aircraft.

RV-12iS	42MiS/U-24 (Fuel Pressure)
RV-12	46-09 (Fuel Pressure)
RV-14/14A	43-03, 43-04
RV-7,8,9	OP-27, OP-28, OP-32, OP34, OP-35
RV-10	FF1, FF4

Step 3: Make a logbook entry indicating compliance with SB-00006 per the requirements of the controlling authority/agency.

For RV-12/12iS aircraft, place a copy of this service information in the back of the maintenance manual for your aircraft. Note the addition of this service information to the bottom of the Maintenance Manual table of contents.

If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and immediately notify Van's Aircraft, Inc. via email at registrations@vansaircraft.com.

Information regarding establishing/transferring aircraft ownership, registration and licensing is available at: https://www.vansaircraft.com/qr/transfer-of-ownership/