SkyView HDX System

Fuel Flow Sensor and Mounting Bracket Installation Guide

Cessna 172

Carbureted Models

103825-000

Revision A

7/15/2019

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Revision History

REV	DATE	APPROVED	DESCRIPTION OF CHANGE
A	07/15/2019	ECO 330582	Initial Release

Installing the Bracket and Sensor

Observe the following requirements when installing the mounting bracket and fuel flow sensor:

- DO NOT install the sensor, hoses, or fittings near the exhaust system or turbocharger. Excessive heat can damage fuel system components.
- DO NOT install 90-degree fittings (elbows) on the input or output ends of the sensor. Doing so will cause turbulence in the fuel flow which causes inaccurate fuel flow data.
- Locate the sensor downstream of fuel filters/strainers, electric boost pumps, engine-driven pump, and when possible, the fuel-metering device.
- Install the sensor with the wiring harness pointed upwards.
- For best measuring performance, the fuel should travel upward by one (1) to two (2) inches (2.54-5.08 cm) after passing through the sensor.

The fuel flow sensor mounting bracket (P/N 503184-000) locates the sensor in the fuel system of carbureted Cessna 172 models so it meets requirements listed above.

To install the fuel flow sensor and mounting bracket:

1. Attach mounting bracket (see Figure 1) to lower left engine mount support tube, which is below the upper tube cluster weldment (see Figure 2). Use an Adel clamp appropriate for tubing size and AN/MS hardware.
2. Attach mounting bracket (see Figure 1) to horizontal engine mount cross support tube, which is inboard of the tube cluster weldment (see Figure 2). Use an Adel clamp appropriate for tubing size and AN/MS hardware.
3. Locate the sensor so that:
   - The wire harness is oriented upwards and fits through slot between two lower flanges.
   - The mounting holes align with the mounting holes in the flanges.
   - The inlet end is oriented toward fuel strainer, and the outlet port is oriented toward carburetor (see Figure 2).
4. Secure sensor to mounting bracket (see Figure 2) using AN/MS hardware.
5. Install fuel hoses and fittings to complete installation.

Figures

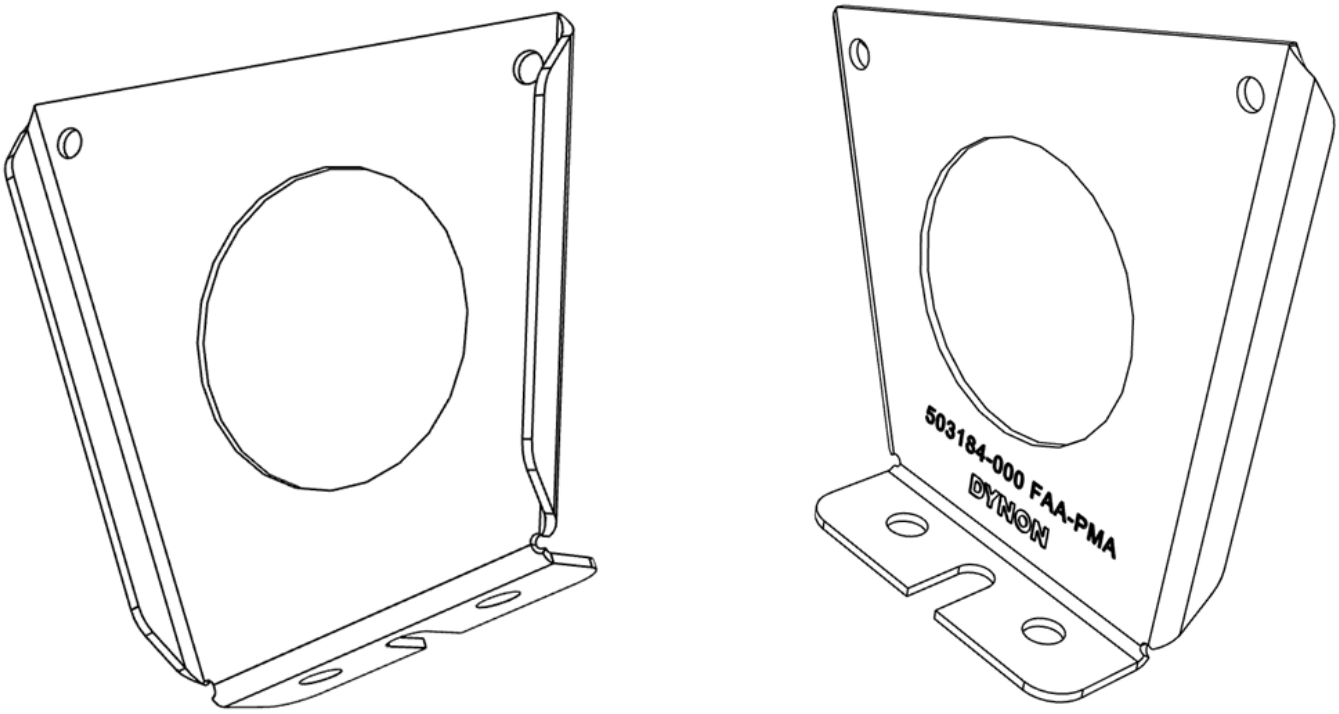

Figure 1: Cessna 172 Fuel Flow Sensor Mounting Bracket, 503184-000

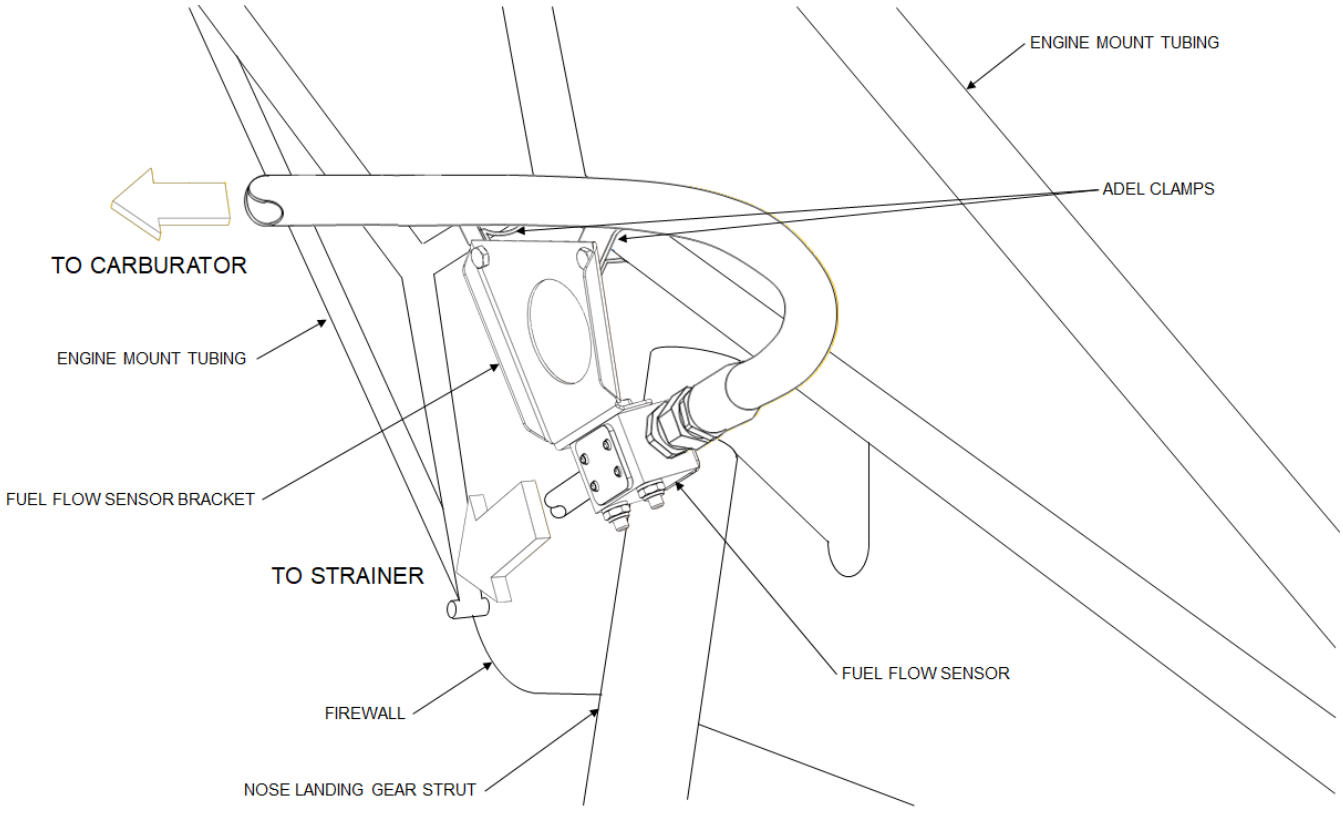

Figure 2: Cessna 172 Fuel Flow Sensor Installation