

SPECIAL AIRWORTHINESS INFORMATION BULLETIN

SAIB: CE-13-44 **Date:** August 30, 2013

SUBJ: ACFT Fuel Filter/Strainer *This is information only. Recommendations aren't mandatory.*

Introduction

This Special Airworthiness Information Bulletin (SAIB) informs owners, operators and maintenance Personnel of **Lake Model LA-4-200 airplanes** of an airworthiness concern regarding the loss of power during take-off due to inadequate fuel flow to the engine.

This airworthiness concern is not an unsafe condition that would warrant airworthiness directive action under Title 14 of the Code of Federal Regulations part 39.

Background

We have received reports that the Lake Model LA-4-200 airplane has a history of engine events, surging, and reduction of power, which could result in accidents. The original fuel filter on this aircraft is a Bendix 450-OK, which has a 40-micron element and is rated for 20 gallons per hour (GPH). The original filter is no longer being manufactured and is mounted horizontally to the engine pylon, which prohibits sediment and water to drain properly. The original filter also does not have a bypass system in the event that the filter fuel flow is restricted.

Recommendations

The FAA recommends the following:

- Replacement of the Bendix 450-OK fuel filter with a fuel filter that has a higher flow rate such as the installation of the newly designed Airmaze Filter Assembly, part number AM01W052261, which is FAA-approved for installation in the LA-4-200 and depicted on Revo Drawing L-0406 C, Revision C, dated 8/5/86. Drawing L-0406 C. This installation has a higher flow rate of 55 GPH, a 40-micron element, and bypass capabilities. This Revo drawing allows for replacement of the the filter with the filter location remaining in the engine pylon.
- Relocation of the newly designed filter to a position below the center fuel tank following. FAA-approved Supplemental Type Certificate (STC) SA00333BO. is another method of accomplishing this. This relocation has the added safety benefit of allowing drainage of water and sediments.

We recommend this replacement or relocation of the fuel filter within the next 25 hours time-inservice (TIS). Pilots should follow the standard aircraft flight manual preflight check procedures, which include draining all fuel tank gascolators and other drainage ports. Pilots should also ensure that the fuel boost pump is engaged during take-off. The filter should be inspected and or replaced as needed at each 100-hour TIS inspection or annual inspection, as applicable. The FAA requests that all fuel filter failures, malfunctions, and loss of power events that are attributable to the fuel filter be reported to Keith Moore at the address shown below. Under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.), the Office of Management and Budget (OMB), has approved the information collection contained in this SAIB, and assigned OMB Control Number 2120-0731.

For Further Information Contact

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For Related Service Information Contact

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