



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Alaska Region

April 7, 2022

FUEL INJECTION SERVO EXAMINATION SUMMARY

WPR20LA009

This document contains 8 embedded photos.

A. ACCIDENT

Location: Stockton, California
Date: October 17, 2019
Aircraft: Cessna 206H, N11379
NTSB Investigator-in-Charge: Samantha Link

B. DETAILS OF THE INVESTIGATION

1.0 Fuel Servo Examination

Avstar Fuel Injection Servo, Model RSA-10ED1, Serial number AV016692, Basic number AV2576545-B, Parts list number AV2576546-3. Inspection was completed on April 7th, 2022, at Alaskan Aircraft Engine, INC. Two NTSB Investigators were present for the inspection. Start time was 1030am local to 1130am.

Work Scope: Flow test and inspect Fuel Injection Servo. Prior to performing a flow test, the Fuel Servo was inspected externally for any visual defects. No visual defects were found. Flow test data is attached below. The Fuel Servo flow rates were marginally below manufacture minimums. It is the opinion of the technical inspector that conducted the flow test, that the lower flow rates would not have effected engine performance. After flow test, the Fuel Servo was disassembled and inspected. Everything passed visual inspection with no abnormal visual wear or debris. The fuel screen was removed and found clean.

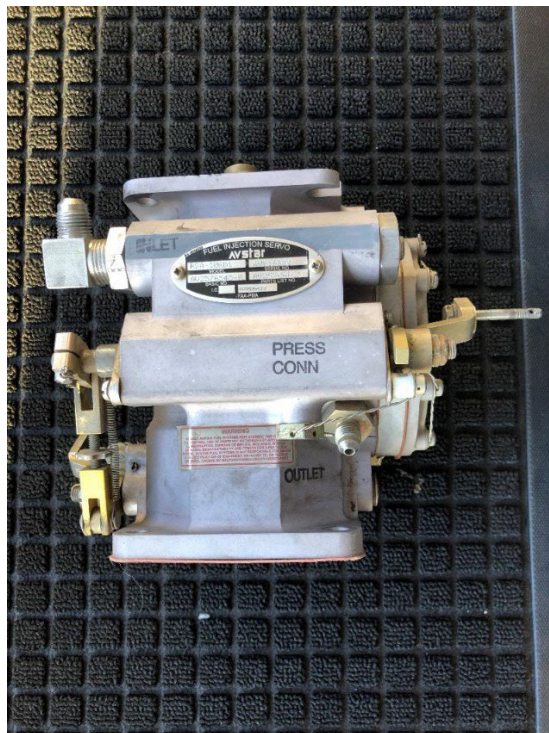


Figure 1: View of the fuel servo.



Figure 2: View of the fuel servo on flow test stand



Figure 3: View of the fuel servo.

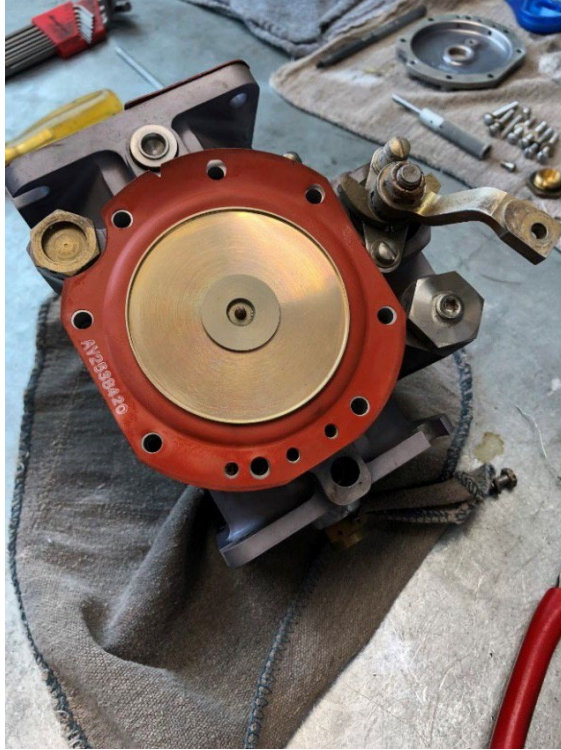


Figure 4: View of the top cover removed above diaphragm.



Figure 5: View of the top cover and first diaphragm removed.



Figure 6: View of the inside (second) fuel diaphragm.

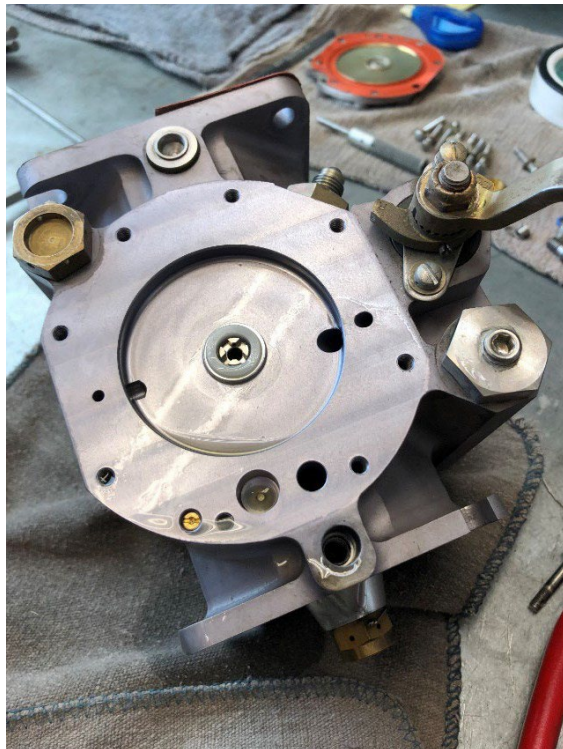


Figure 7: View of the fuel servo with both fuel diaphragms removed.



Figure 8: View of the fuel servo filter.

Submitted by: Mark Ward