

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



ERA24FA371

FUEL SERVO EXAMINATION

April 11, 2025

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A. ACCIDENT

Location: Vergennes, VT
Date: September 8, 2024
Time: 12:25 EDT
16:25 UTC
Airplane: Piper PA28R-180 (N3757T)

B. FUEL SERVO EXAMINATION

IIC Kurt Gibson
NTSB
Washington, D.C.

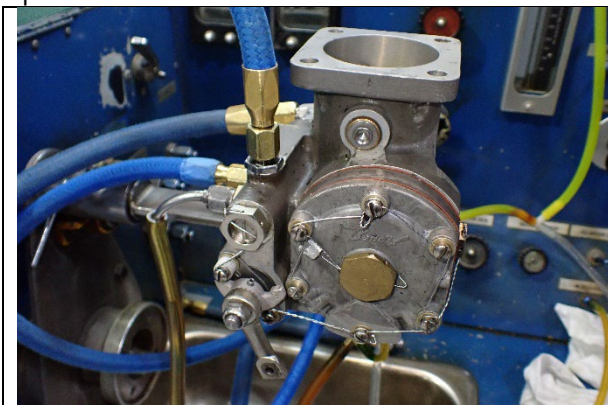
C. SUMMARY

On March 25, 2025, the Bendix Servo Fuel Injector (P/N: 2524297-10, S/N: 16086 /4), was examined at AvStar Fuel Systems in Jupiter, FL. The examination revealed that the servo throttle stop was missing the plastic portion of the stop. The servo fuel injector was tested and examined, and it was found that the servo was still capable of normal operation despite missing the plastic portion of the throttle stop.

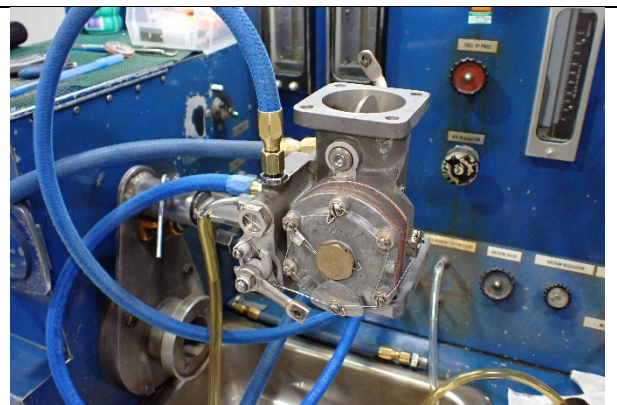
D. DETAILS OF THE EXAMINATION

1.0 Servo Fuel Injector Testing

The servo fuel injector was placed on a production test bench and checked for proper fuel flow at multiple throttle settings. The servo fuel injector operated normally at all test points, and the observed fuel flow was within the service limits. There were no anomalies observed during the test that would have precluded normal operation.



Photograph 1: Servo on test bench



Photograph 2: Servo on test bench

2.0 Servo Fuel Injector Examination

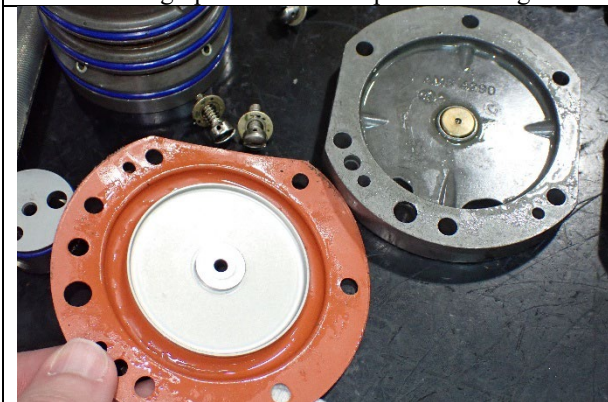
After completing the production test of the servo fuel injector, the servo was disassembled and examined. There was a small amount of oil consistent with preservative oil on the air side of the servo's regulator; however, the technician reported this would not have prevented normal operation of the regulator. The rest of the internal components displayed normal operating signatures. There were no anomalies observed that would have precluded normal operation of the servo.



Photograph 3: Fuel servo prior to testing



Photograph 4: Fuel servo disassembled



Photograph 5: Fuel servo regulator with oily substance



Photograph 6: Throttle control arm and linkage



Photograph 7: Servo throttle stop with visible wear



Photograph 8: Servo throttle stop with visible wear

Submitted by:

Kurt Gibson
Aviation Accident Investigator