

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



WPR24LA023

AIRFRAME AND ENGINE EXAMINATION SUMMARY

5/21/2025

A. ACCIDENT

Location: Novato, California
Date: October 26, 2023
Time: 1330 PDT
Airplane: N28BS, Vans RV12

B. AIRFRAME AND ENGINE EXAMINATION SUMMARY

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National Transportation Safety Board

C. DETAILS OF THE EXAMINATION

1.0 Summary

Examination of the recovered airframe and engine were conducted at Plain Parts, Pleasant Grove, California on April 30, 2024, and May 21, 2025.

2.0 Airframe Examination

Examination of the recovered airframe and engine revealed that throttle and choke continuity was established from the cockpit controls to the engine. Compressed air was applied to the engine fuel inlet lines, and no obstructions were found throughout the fuel system. The fuel cap vent was free of obstructions.

The airframe "mixture" knob was found 1 turn out from full rich. Compressed air was applied to the mixture "inlet" line and air expelled from the "outlet" line. The knob was moved to the full rich position, and no air moved throughout the lines.

3.0 Engine Examination

Examination of the engine remained attached to the airframe. All accessories remained attached. The carburetor vent lines extended from the firewall to a "T", then to each carburetor. All fuel system lines remained secure to their respective fittings except for the cylinder 1/3 side carburetor float chamber vent line, which was found disconnected from the carburetor. The mixture system jet was found free of obstructions.

The upper spark plugs were removed, and the propeller was rotated by hand. Rotational continuity was established throughout the engine and valve train. Thumb compression was obtained on all 4 cylinders. Each cylinder was examined internally using a lighted borescope and exhibited normal operating signatures.

Both carburetor slide caps exhibited a "nipple" that was tapped into the cap assembly itself, and interconnected to a T, and extended to the firewall, for a mixture control.

The cylinder 1 and 3 side carburetor was removed and partially disassembled. The floats were intact with some slight debris within the float bowl. The carburetor slide moved up and down normally.

The cylinder 1 and 4 side carburetor was removed and partially disassembled. The floats were intact and no debris was observed within the float bowl. The slide moved and down freely.

Submitted by:

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