



Aviation Investigation Final Report

Location: Frederick, Maryland Accident Number: ERA22LA245

Date & Time: May 29, 2022, 09:00 Local Registration: N85EX

Aircraft: Van Lehn Hatz Classic Aircraft Damage: Substantial

Defining Event: Nose over/nose down **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot, who was also the owner and builder of the tailwheel equipped biplane stated that the purpose of the flight was to perform a "final check" of the airplane's engine and operating systems. The airplane performed "properly," and he landed "without issue." The pilot further stated that at low speed during the landing roll, his foot "became lodged between the bulkhead and the brake" which resulted in a sudden misapplication of the brakes and a nose over event, which fractured a wing strut and substantially damaged the airplane.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's inadvertent application of the brakes during the landing roll which resulted in a nose over.

Findings

Aircraft Surface speed/braking - Incorrect use/operation

Personnel issues Aircraft control - Pilot

Factual Information

History of Flight

Landing-landing roll Nose	over/nose down (Defining event)
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Pilot Information

Certificate:	Airline transport; Commercial; Flight instructor	Age:	65,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Rear
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	Airplane	Second Pilot Present:	
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	November 18, 2021
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	28000 hours (Total, all aircraft), 1.5	hours (Total, this make and model)	

Aircraft and Owner/Operator Information

Aircraft Make:	Van Lehn	Registration:	N85EX
Model/Series:	Hatz Classic NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	2022	Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	194
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	May 15, 2022 Condition	Certified Max Gross Wt.:	1700 lbs
Time Since Last Inspection:	1.5 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1.5 Hrs at time of accident	Engine Manufacturer:	Rotec
ELT:		Engine Model/Series:	R3800
Registered Owner:	VAN LEHN RICHARD GLENN	Rated Power:	150
Operator:	VAN LEHN RICHARD GLENN	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KFDK,303 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	07:47 Local	Direction from Accident Site:	265°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.09 inches Hg	Temperature/Dew Point:	17°C / 16°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Frederick, MD	Type of Flight Plan Filed:	None
Destination:	Frederick, MD	Type of Clearance:	VFR
Departure Time:		Type of Airspace:	Class D

Airport Information

Airport:	FREDERICK MUNI FDK	Runway Surface Type:	Asphalt
Airport Elevation:	306 ft msl	Runway Surface Condition:	Dry
Runway Used:	23	IFR Approach:	None
Runway Length/Width:	5819 ft / 100 ft	VFR Approach/Landing:	Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	39.417568,-77.374297

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Administrative Information

Investigator In Charge (IIC):	Rayner, Brian
Additional Participating Persons:	Steve O'Rourke; FAA FSDO; Baltimore
Original Publish Date:	April 20, 2023
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=105148

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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