

Aviation Investigation Final Report

Location: Sheridan, Wyoming **Accident Number:** WPR13CA263

Date & Time: June 6, 2013, 19:30 Local Registration: N540TH

Aircraft: Garland Avipro Bearhawk Aircraft Damage: Substantial

Defining Event: Aerodynamic stall/spin **Injuries:** 1 Minor

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot stated that the purpose of the flight was to return back to his home airport. He configured the airplane for a three-point takeoff and added full power. During the takeoff roll, the airplane began to veer to the left and subsequently became airborne. As the airplane ascended to about 50 feet above ground level (agl), the left wing dropped and subsequently struck the ground. The airplane was substantially damaged when it tumbled in a cartwheel-type maneuver with the right wing flipping over and striking the terrain. The airplane came to rest on its belly in a grassy area adjacent to the taxiway.

The pilot stated that there were no mechanical malfunctions or failures with the airplane that would have precluded normal operation. He noted that the wind was calm. He thought that the airplane initially veered left because of p-factor and his delay in recognizing this aerodynamic phenomenon.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to maintain airspeed, which resulted in a stall and a loss of aircraft control during the initial takeoff.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Airspeed - Not attained/maintained

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Factual Information

History of Flight

Initial climb	Aerodynamic stall/spin (Defining event)
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Pilot Information

Certificate:	Private	Age:	61,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	December 30, 2012
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	4326 hours (Total, all aircraft), 56 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	Garland	Registration:	N540TH
Model/Series:	Avipro Bearhawk	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	029-43-44-590
Landing Gear Type:	Tailwheel	Seats:	
Date/Type of Last Inspection:	Condition	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	81 Hrs	Engine Manufacturer:	Lycoming
ELT:	Installed, activated	Engine Model/Series:	O-540-L35D
Registered Owner:	Garland Air LLC	Rated Power:	235 Horsepower
Operator:	Garland Air LLC	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:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
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:	30.2 inches Hg	Temperature/Dew Point:	24°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Sheridan, WY (SHR)	Type of Flight Plan Filed:	None
Destination:	Buffalo, WY (BYG)	Type of Clearance:	None
Departure Time:	19:30 Local	Type of Airspace:	

Airport Information

Airport:	Sheridan County Airport SHR	Runway Surface Type:	Asphalt
Airport Elevation:	4021 ft msl	Runway Surface Condition:	Dry
Runway Used:	23	IFR Approach:	None
Runway Length/Width:	5000 ft / 75 ft	VFR Approach/Landing:	

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	44.769165,-106.980278(est)

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Administrative Information

Investigator In Charge (IIC):	Keliher, Zoe	
Additional Participating Persons:	Phil Gohde; Federal Aviation Administration; Denver, CO	
Original Publish Date:	July 23, 2013	
Last Revision Date:		
Investigation Class:	Class	
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=87116	

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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 <a href="https://example.com/hereigness-resulting-new-matter-mentione-members-resulting-new-matter-mentione-members-resulting-new-matter-mentione-members-resulting-new-matter-mentione-members-resulting-new-matter-mentione-members-resulting-new-members-resulting-n

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