



Aviation Investigation Final Report

Location:	Bentonville, Arkansas	Accident Number:	GAA18CA549
Date & Time:	September 12, 2018, 18:30 Local	Registration:	N868X
Aircraft:	Aviat A1	Aircraft Damage:	Substantial
Defining Event:	Aerodynamic stall/spin	Injuries:	1 Minor
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot reported that, during landing, the tailwheel-equipped airplane bounced. The airplane then bounced again twice and veered left of the centerline, and he applied "stick back" to pin the tail down. He then applied full throttle to go around but did not relieve the back pressure on the stick. Subsequently, the airplane pitched up in a "very high" angle of attack, which resulted in an aerodynamic stall and spin and subsequent impact with the ground.

The airplane sustained substantial damage to the fuselage.

The pilot reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

Probable Cause and Findings

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

The pilot's exceedance of the airplane's critical angle of attack during an attempted go-around after the airplane bounced, which resulted in an aerodynamic stall.

Findings

Aircraft	Angle of attack - Capability exceeded
Personnel issues	Aircraft control - Pilot

Factual Information

History of Flight

Landing	Abnormal runway contact
Landing	Attempted remediation/recovery
Approach-VFR go-around	Aerodynamic stall/spin (Defining event)
Approach-VFR go-around	Controlled flight into terr/obj (CFIT)

Pilot Information

Certificate:	Private	Age:	47,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	August 3, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	June 9, 2018
Flight Time:	(Estimated) 150.3 hours (Total, all aircraft), 20.2 hours (Total, this make and model), 57.2 hours (Pilot In Command, all aircraft), 42 hours (Last 90 days, all aircraft), 10.5 hours (Last 30 days, all aircraft), 0.2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Aviat	Registration:	N868X
Model/Series:	A1 B	Aircraft Category:	Airplane
Year of Manufacture:	2006	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	2351
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	January 24, 2018 100 hour	Certified Max Gross Wt.:	2000 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1513.6 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	IO-360-A1D6
Registered Owner:		Rated Power:	200 Horsepower
Operator:		Operating Certificate(s) Held:	On-demand air taxi (135), Pilot school (141)
Operator Does Business As:	Summit Aviation LLC	Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KVBT, 1296 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	23:56 Local	Direction from Accident Site:	46°
Lowest Cloud Condition:	Scattered / 4400 ft AGL	Visibility	10 miles
Lowest Ceiling:	Broken / 7500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	130°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.09 inches Hg	Temperature/Dew Point:	26°C / 19°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Bentonville, AR (VBT)	Type of Flight Plan Filed:	None
Destination:	Bentonville, AR (VBT)	Type of Clearance:	None
Departure Time:	18:15 Local	Type of Airspace:	Class E

Airport Information

Airport:	BENTONVILLE MUNI/LOUISE M THAD VBT	Runway Surface Type:	Asphalt
Airport Elevation:	1298 ft msl	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	4426 ft / 65 ft	VFR Approach/Landing:	Full stop;Traffic pattern

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:	36.348331,-94.219169(est)

Administrative Information

Investigator In Charge (IIC):	Swenson, Eric
Additional Participating Persons:	Nathan Bradshaw; FAA; Little Rock, AR
Original Publish Date:	March 18, 2019
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=98290

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

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