

Aviation Investigation Final Report

Location: Cleveland, Georgia Accident Number: ERA16CA314

Date & Time: September 9, 2016, 19:00 Local Registration: N396DF

Aircraft: QUICKSILVER MANUFACTURING INC SPORT 2S Aircraft Damage: Substantial

Defining Event: Loss of control in flight **Injuries:** 2 Minor

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot of the experimental, amateur-built airplane reported that he was demonstrating turns for the passenger while flying at a low altitude when he lost control of the airplane and "stalled." The airplane collided with trees and sustained substantial damage to the fuselage, wings, and empennage. The pilot reported that there were no preimpact mechanical failures or malfunctions with the airframe or engine 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 failure to maintain adequate airspeed and his exceedance of the airplane's critical angle of attack, which resulted in an aerodynamic stall.

Findings

Personnel issues Aircraft control - Pilot

Aircraft Airspeed - Not attained/maintained

Aircraft Angle of attack - Not attained/maintained

Environmental issues Tree(s) - Contributed to outcome

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Factual Information

History of Flight

Maneuvering-low-alt flying	Loss of control in flight (Defining event)
Uncontrolled descent	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Sport Pilot	Age:	75,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	September 14, 2009
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 3000 hours (Total, all aire	craft), 50 hours (Total, this make and r	nodel)

Aircraft and Owner/Operator Information

Aircraft Make:	QUICKSILVER MANUFACTURING INC	Registration:	N396DF
Model/Series:	SPORT 2S NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	2004	Amateur Built:	
Airworthiness Certificate:	Experimental (Special)	Serial Number:	0104
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	ROTAX
ELT:	Not installed	Engine Model/Series:	582
Registered Owner:		Rated Power:	65 Horsepower
Operator:	On file	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:	TOC,996 ft msl	Distance from Accident Site:	17 Nautical Miles
Observation Time:	18:55 Local	Direction from Accident Site:	45°
Lowest Cloud Condition:	Scattered / 9500 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.03 inches Hg	Temperature/Dew Point:	31°C / 19°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Cleveland, GA	Type of Flight Plan Filed:	None
Destination:	Cleveland, GA	Type of Clearance:	None
Departure Time:	18:50 Local	Type of Airspace:	Class G

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Minor	Latitude, Longitude:	34.580554,-83.68222

Administrative Information

Investigator In Charge (IIC):	Alleyne, Eric
Additional Participating Persons:	Dave Detsche; FAA/FSDO; Atlanta, GA
Original Publish Date:	July 5, 2017
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=94006

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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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