



National Transportation Safety Board

Aviation Accident Data Summary

Location:	Prospect Heights, IL	Accident Number:	GAA16CA280
Date & Time:	06/02/2016, 2010 CDT	Registration:	N126RG
Aircraft:	STAUDACHER AIRCRAFT INC S 300	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot of the tailwheel-equipped airplane reported that he landed hard and bounced. The pilot further reported that after the bounce, he knew that the left main landing gear had collapsed, and he held the left wing off of the runway until the airplane slowed and the wing stopped producing lift. Subsequently, the airplane veered off the runway to the left and collided with runway signs, which resulted in substantial damage to the horizontal stabilizer.

The pilot reported that the "1/2 inch fine thread bolt" on the left main landing gear failed during the bounced landing.

Flight Events

- Landing-flare/touchdown - Hard landing
- Landing-flare/touchdown - Landing gear collapse
- Landing-flare/touchdown - Runway excursion
- Landing - Collision with terr/obj (non-CFIT)

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's incorrect pitch control during the landing, which resulted in a hard bounced landing, and subsequent left main landing gear collapse, a runway excursion, and a collision with a runway sign.

Findings

- Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Pitch control-Incorrect use/operation - C
- Aircraft-Aircraft systems-Landing gear system-Main landing gear-Capability exceeded
- Personnel issues-Task performance-Use of equip/info-Aircraft control-Pilot - C
- Environmental issues-Operating environment-Airport facilities/design-Taxiway markings/signage-Contributed to outcome

Pilot Information

Certificate:	Private	Age:	69
Airplane Rating(s):	Single-engine Land; Single-engine Sea	Instrument Rating(s):	None
Other Aircraft Rating(s):	Glider	Instructor Rating(s):	None
Flight Time:	(Estimated) 1764 hours (Total, all aircraft), 193 hours (Total, this make and model), 1764 hours (Pilot In Command, all aircraft), 23 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	STAUDACHER AIRCRAFT INC	Registration:	N126RG
Model/Series:	S 300 NO SERIES	Engines:	1 Reciprocating
Operator:	PETERSEN, ALFRED C.	Engine Manufacturer:	Lycoming
Air Carrier Operating Certificate:	None	Engine Model/Series:	IO-540
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KPWK, 646 ft msl	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	None
Condition of Light:	Day	Wind Speed/Gusts, Direction:	7 knots, 60°
Temperature:	21°C / 11°C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Prospect Heights, IL (PWK)	Destination:	Prospect Heights, IL (PWK)

Airport Information

Airport:	CHICAGO EXECUTIVE (PWK)	Runway Surface Type:	Asphalt
Runway Used:	12	Runway Surface Condition:	Dry
Runway Length/Width:	4415 ft / 75 ft		

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None

Administrative Information

Investigator In Charge (IIC):	Adam M Gerhardt	Adopted Date:	08/03/2016
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=93318		

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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