



Aviation Investigation Final Report

Location: Laramie, Wyoming Accident Number: GAA19CA044

Date & Time: October 26, 2018, 18:40 Local Registration: N505YR

Aircraft: Stoddard Hamilton Glasair II Aircraft Damage: Substantial

Defining Event: Abnormal runway contact **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot-rated owner reported that, after purchasing the airplane and receiving initial training the day before and the morning of the accident, he and a pilot-rated friend departed for a cross-country flight to their home airport. He added that, after nearly 9 hours of flying, the pilot-rated friend, who was manipulating the flight controls, offered to land at the destination airport because he had landed there before. The horizon was becoming dark, and they attempted to adjust the panel lights for the instruments but realized that the lights were not functioning, so the owner used a flashlight to illuminate the instruments for the landing.

During the landing, the nose landing gear contacted the ground first, and the airplane porpoised. The second bounce was more severe, so the pilot initiated a go-around to no avail. The owner added that, during the third bounce, the airplane exited the runway to the left and then came to rest nose down.

The airplane sustained substantial damage to the engine mount and fuselage.

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

The airport's automated weather observation system reported that, about the time of the accident, the wind was from 270° at 11 knots. The pilot landed the airplane on runway 30.

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 a proper pitch attitude during landing at night, which resulted in a porpoised landing.

Findings

Aircraft Pitch control - Not attained/maintained

Personnel issues Aircraft control - Pilot

Personnel issues Total experience w/ equipment - Pilot

Aircraft Flight compartment lighting - Inoperative

Environmental issues Dark - Effect on personnel

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Factual Information

History of Flight

Landing	Abnormal runway contact (Defining event)
Landing	Loss of control on ground
Landing	Attempted remediation/recovery
Landing	Runway excursion
Landing	Nose over/nose down

Pilot Information

Certificate:	Private	Age:	62,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	BasicMed Without waivers/limitations	Last FAA Medical Exam:	September 9, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	November 19, 2016
Flight Time:	(Estimated) 128.3 hours (Total, all aircraft), 9.8 hours (Total, this make and model), 74 hours (Pilot In Command, all aircraft), 14.1 hours (Last 90 days, all aircraft), 10.8 hours (Last 30 days, all aircraft), 8.8 hours (Last 24 hours, all aircraft)		

Pilot-rated passenger Information

Certificate:	Private	Age:	71,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	BasicMed Without waivers/limitations	Last FAA Medical Exam:	July 25, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	August 29, 2018
Flight Time:	(Estimated) 1604 hours (Total, all aircraft), 7.9 hours (Total, this make and model), 1530 hours (Pilot In Command, all aircraft), 24 hours (Last 90 days, all aircraft), 17.5 hours (Last 30 days, all aircraft), 7.9 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Stoddard Hamilton	Registration:	N505YR
Model/Series:	Glasair II FT	Aircraft Category:	Airplane
Year of Manufacture:	1995	Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	2040
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	August 2, 2018 Annual	Certified Max Gross Wt.:	2200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	794.3 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	0-320-D1A
Registered Owner:		Rated Power:	160 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KLAR,7272 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	00:53 Local	Direction from Accident Site:	251°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	11 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	270°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.14 inches Hg	Temperature/Dew Point:	6°C / -2°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Hereford, TX (HRX)	Type of Flight Plan Filed:	None
Destination:	Laramie, WY (LAR)	Type of Clearance:	None
Departure Time:	16:10 Local	Type of Airspace:	Class E

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Airport Information

Airport:	LARAMIE RGNL LAR	Runway Surface Type:	Asphalt
Airport Elevation:	7283 ft msl	Runway Surface Condition:	Dry
Runway Used:	30	IFR Approach:	None
Runway Length/Width:	6300 ft / 100 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	41.320278,-105.67028(est)

Administrative Information

Investigator In Charge (IIC):	Swenson, Eric
Additional Participating Persons:	Josh Pritchard; FAA; Denver, CO
Original Publish Date:	June 5, 2019
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=98582

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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