



National Transportation Safety Board Aviation Accident Final Report

Location:	Chesapeake, VA	Accident Number:	GAA16CA098
Date & Time:	01/02/2016, 1258 EST	Registration:	N676L
Aircraft:	JOHNSON GLENN L ZODIAC 601 XL	Aircraft Damage:	Substantial
Defining Event:	Abnormal runway contact	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

According to the pilot of the tricycle landing gear equipped airplane, he was performing a normal approach and landing to an asphalt runway. He reported that after accomplishing the landing flare he recalled "jockeying" the stick in order to get closer to the runway. The airplane touched down, bounced three times and the pilot added power. The airplane struck the ground a fourth time and the nose gear collapsed. The pilot reported that the airplane skidded down the center of the runway and came to a halt. The airplane sustained substantial damage to the firewall and frame.

The pilot reported that there were no mechanical failures or anomalies prior to or during the flight that would have prevented normal flight 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 pitch control during the landing, causing the airplane to bounce and the nose gear to collapse, resulting in substantial damage to the firewall and frame.

Findings

Aircraft	Pitch control - Not attained/maintained (Cause) Nose/tail landing gear - Damaged/degraded
Personnel issues	Aircraft control - Pilot (Cause)

Factual Information

History of Flight

Landing-landing roll	Abnormal runway contact (Defining event) Landing gear collapse Loss of control on ground
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Pilot Information

Certificate:	Private	Age:	60, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Sport Pilot With Waivers/Limitations	Last Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	08/16/2015
Flight Time:	(Estimated) 190 hours (Total, all aircraft), 98 hours (Total, this make and model), 113 hours (Pilot In Command, all aircraft), 21 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	JOHNSON GLENN L	Registration:	N676L
Model/Series:	ZODIAC 601 XL B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental	Serial Number:	6-4893
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	05/23/2015, Conditional	Certified Max Gross Wt.:	1320 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	109.1 Hours	Engine Manufacturer:	CONT MOTOR
ELT:	C91A installed, activated, did not aid in locating accident	Engine Model/Series:	O-200-A48
Registered Owner:	JOHNSON GLENN L	Rated Power:	100 hp
Operator:	JOHNSON GLENN L	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KCPK, 20 ft msl	Observation Time:	1755 UTC
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	321°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	11°C / -7°C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	Calm	Visibility (RVR):	
Altimeter Setting:	30.15 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Chesapeake, VA (CPK)	Type of Flight Plan Filed:	None
Destination:	Chesapeake, VA (CPK)	Type of Clearance:	None
Departure Time:	1155 EST	Type of Airspace:	Class G

Airport Information

Airport:	CHESAPEAKE RGNL (CPK)	Runway Surface Type:	Asphalt
Airport Elevation:	18 ft	Runway Surface Condition:	Dry
Runway Used:	23	IFR Approach:	None
Runway Length/Width:	5500 ft / 100 ft	VFR Approach/Landing:	Touch and Go; 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		

Administrative Information

Investigator In Charge (IIC):	Michael A Hicks	Adopted Date:	04/05/2016
Additional Participating Persons:	Jay Venable; Federal Aviation Administration; Richmond, VA		
Publish Date:	04/05/2016		
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=92551		

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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