



# Aviation Investigation Final Report

<b>Location:</b>	Provo, Utah	<b>Accident Number:</b>	WPR13CA170
<b>Date &amp; Time:</b>	March 28, 2013, 15:00 Local	<b>Registration:</b>	N986CT
<b>Aircraft:</b>	Diamond DA 20-C1	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control in flight	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Instructional		

## Analysis

The student pilot reported that, while conducting his first solo landing of the day, he flared the airplane, and the main landing gear touched down smoothly then lifted off of the ground again because of excessive speed. About 15 feet above the ground, the student pilot elected to conduct a go-around and added full power. The airplane became unstable and yawed to the right, and the left wing started lowering toward the ground. Despite pilot control inputs, the left wingtip impacted the runway. The airplane landed hard and spun about 180 degrees before coming to rest. During the accident sequence, the airplane sustained substantial damage to the left wing and empennage. The student pilot reported no 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 student pilot’s failure to maintain airspeed and airplane control during an attempted go-around.

### Findings

<b>Personnel issues</b>	Aircraft control - Pilot
<b>Aircraft</b>	Airspeed - Not attained/maintained

## Factual Information

### History of Flight

<b>Approach-VFR go-around</b>	Loss of control in flight (Defining event)
<b>Approach-VFR go-around</b>	Abnormal runway contact

### Student pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	30, Male
<b>Airplane Rating(s):</b>	None	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Unknown	<b>Last FAA Medical Exam:</b>	November 26, 2012
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	17 hours (Total, all aircraft), 17 hours (Total, this make and model)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Diamond	<b>Registration:</b>	N986CT
<b>Model/Series:</b>	DA 20-C1	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	C0086
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>		<b>Certified Max Gross Wt.:</b>	
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	Continental Motors
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-200 Series
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	PUV,4497 ft msl	<b>Distance from Accident Site:</b>	0 Nautical Miles
<b>Observation Time:</b>	15:50 Local	<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Scattered / 10000 ft AGL	<b>Visibility</b>	15 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	4 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.02 inches Hg	<b>Temperature/Dew Point:</b>	19°C / -3°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Provo, UT (PVU )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Provo, UT (PVU )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	14:55 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	Provo Municipal Airport PVU	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	4497 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	13	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	8599 ft / 150 ft	<b>VFR Approach/Landing:</b>	Go around;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	40.218055,-111.720558(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Link, Samantha
<b>Additional Participating Persons:</b>	David E Odekirk; Federal Aviation Administration; Salt Lake City, UT
<b>Original Publish Date:</b>	August 7, 2013
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=86540">https://data.nts.gov/Docket?ProjectID=86540</a>

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