



National Transportation Safety Board Aviation Accident Final Report

Location:	Spanish Fork, UT	Accident Number:	WPR09CA322
Date & Time:	07/01/2009, 1230 MDT	Registration:	N765DC
Aircraft:	DIAMOND AIRCRAFT IND INC DA 20-C1	Aircraft Damage:	Substantial
Defining Event:	Hard landing	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Analysis

The student pilot reported that his final approach to the runway was high and that he "slipped" the airplane to lose altitude. As the airplane crossed over the runway, he pitched the airplane forward to prepare for landing. The student pilot stated that he "felt the [air]plane losing forward momentum and added throttle to compensate." The airplane landed hard, bounced back into the air, and began to drift to the left. As the student pilot attempted to abort the landing by applying full throttle and reducing flaps, the airplane landed hard and exited the runway to the left. Subsequently, the airplane impacted a ditch, which resulted in structural damage to the rudder, left aileron, fuselage, and engine firewall. The student pilot reported no mechanical anomalies with the engine or airframe prior to the accident.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The student pilot's improper landing flare.

Findings

Aircraft

Personnel issues	Aircraft control - Pilot (Cause)
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Factual Information

History of Flight

Landing-flare/touchdown	Hard landing (Defining event)
Landing-landing roll	Runway excursion

Student Pilot Information

Certificate:	Student	Age:	35, Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without Waivers/Limitations	Last Medical Exam:	06/15/2009
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	29 hours (Total, all aircraft), 16 hours (Total, this make and model), 2 hours (Pilot In Command, all aircraft), 29 hours (Last 90 days, all aircraft), 21 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	DIAMOND AIRCRAFT IND INC	Registration:	N765DC
Model/Series:	DA 20-C1	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Utility	Serial Number:	C0165
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	04/13/2009, 100 Hour	Certified Max Gross Wt.:	1764 lbs
Time Since Last Inspection:	95 Hours	Engines:	1 Reciprocating
Airframe Total Time:	2660 Hours	Engine Manufacturer:	CONT MOTOR
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	IO-240 SER
Registered Owner:	AIRGYRO AVIATION LLC	Rated Power:	128 hp
Operator:	AIRGYRO AVIATION LLC	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	PVU, 4497 ft msl	Observation Time:	1255 MDT
Distance from Accident Site:	5 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	329°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Scattered / 10000 ft agl	Temperature/Dew Point:	28°C / 14°C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	5 knots, 150°	Visibility (RVR):	
Altimeter Setting:	30.05 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Spanish Fork, UT (U77)	Type of Flight Plan Filed:	None
Destination:	Spanish Fork, UT (U77)	Type of Clearance:	None
Departure Time:	1145 MDT	Type of Airspace:	

Airport Information

Airport:	Spanish Fork-Springville (U77)	Runway Surface Type:	Asphalt
Airport Elevation:	4529 ft	Runway Surface Condition:	Dry
Runway Used:	30	IFR Approach:	None
Runway Length/Width:	5700 ft / 100 ft	VFR Approach/Landing:	Full Stop; Traffic Pattern

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
Total Injuries:	1 None		

Administrative Information

Investigator In Charge (IIC):	Joshua Cawthra	Adopted Date:	09/10/2009
Additional Participating Persons:	David C Longan; Federal Aviation Administration; Salt Lake City, UT		
Publish Date:	09/10/2009		
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=74171		

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