



Aviation Investigation Final Report

Location:	Fuquay-Varina, North Carolina	Accident Number:	GAA15CA072
Date & Time:	March 20, 2015, 19:00 Local	Registration:	N840AB
Aircraft:	DIAMOND AIRCRAFT IND INC DA40	Aircraft Damage:	Substantial
Defining Event:	Runway excursion	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot reported that during the landing roll on a grass airstrip, he did not get the airplane stopped before running off the end of the runway. He said the airplane exited the runway at a slow speed and rolled into a ditch. The right main landing gear bent rearward structurally damaging a fuselage bulkhead. The pilot reported that there were 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 pilot's failure to maintain control of the airplane during the landing roll, which resulted in a runway overrun.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Surface speed/braking - Not attained/maintained

Factual Information

History of Flight

Landing-landing roll	Runway excursion (Defining event)
Landing-landing roll	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Commercial	Age:	24
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	June 26, 2013
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	November 28, 2014
Flight Time:	(Estimated) 390.3 hours (Total, all aircraft), 172.5 hours (Total, this make and model), 46.5 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	DIAMOND AIRCRAFT IND INC	Registration:	N840AB
Model/Series:	DA40	Aircraft Category:	Airplane
Year of Manufacture:	2005	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	40.478
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	December 11, 2014 Annual	Certified Max Gross Wt.:	2646 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1696 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	IO-360-M1A
Registered Owner:	Diamond Group Holdings	Rated Power:	180 Horsepower
Operator:	Dillon's Aviation	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KHRJ,198 ft msl	Distance from Accident Site:	10 Nautical Miles
Observation Time:	22:55 Local	Direction from Accident Site:	176°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	190°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.04 inches Hg	Temperature/Dew Point:	17°C / 8°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	SANFORD, NC (TTA)	Type of Flight Plan Filed:	None
Destination:	Fuquay-Varina, NC (78NC)	Type of Clearance:	VFR flight following
Departure Time:	18:30 Local	Type of Airspace:	Class G

Airport Information

Airport:	FUQUAY/ANGIER FIELD 78NC	Runway Surface Type:	Grass/turf
Airport Elevation:	349 ft msl	Runway Surface Condition:	Unknown
Runway Used:	14	IFR Approach:	None
Runway Length/Width:	2780 ft / 90 ft	VFR Approach/Landing:	Straight-in

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	35.540554,-78.747497(est)

Administrative Information

Investigator In Charge (IIC):	Bigelow, Bradley
Additional Participating Persons:	Jerry L Toms; Federal Aviation Administration; Greensboro, NC
Original Publish Date:	July 8, 2015
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=91176

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