

Aviation Investigation Factual Report

Location:	Glendale, Arizona	Accident Number:	LAX05LA170
Date & Time:	May 14, 2005, 15:00 Local	Registration:	N791MA
Aircraft:	Diamond Aircraft Industries DA 20- C1	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Factual Information

On May 14, 2005, about 1500 mountain standard time, a Diamond DA 20-C1, N791MA, experienced a hard landing at the Glendale Municipal Airport (GEU), Glendale, Arizona. The pilot/owner was operating the airplane under the provisions of 14 CFR Part 91. The private pilot, the sole occupant, was not injured; the airplane sustained substantial damage. The personal local area flight departed Glendale about 1345. Day visual meteorological conditions prevailed, and no flight plan had been filed. The primary wreckage was at 33 degrees 31 minutes north latitude and 112 degrees 17 minutes west longitude.

An hourly weather report issued for GEU at 1457 reported winds from the west at 5.8 miles per hour (mph) with a temperature of 93.2 degrees Fahrenheit and a dew point of 28.4 degrees Fahrenheit. At 1547, the hourly weather observation reported winds from the north-northeast at 4.6 mph with a temperature of 93.2 degrees Fahrenheit and a dew point of 26.6 degrees Fahrenheit.

During the first interview with the National Transportation Safety Board investigator-in-charge (IIC) on the day of the accident, the pilot stated that he was making a straight in approach for runway 19 from the north. The pilot reported that the approach was normal and he recalled Automatic Terminal Information Service (ATIS) reporting winds at 4 knots. He "felt ground effect" and noted the airspeed at 44 knots (normal landing airspeed is between 40-44 knots). He said that he pulled the throttle control all the way out and the nose dropped and impacted the runway. He further reported that he may have prevented the accident by not pulling the throttle control all the way out. He added that there were no preimpact mechanical malfunctions or failures with the airplane.

In a second interview with the pilot on June 6, 2005, he reported that he flared too high, and the airplane stalled. During this interview he also felt that if he had initiated a go-around the accident could have been prevented.

The Federal Aviation Administration (FAA) accident coordinator and another FAA inspector examined the airplane and noted damage to the firewall. On June 30, 2005, the pilot voluntarily surrendered his pilot's certificate and medical to the local FAA Flight Standards District Office.

Pilot Information

Certificate:	Private	Age:	36,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:	Class 3	Last FAA Medical Exam:	August 1, 2003
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	388 hours (Total, all aircraft), 297 hours (Total, this make and model), 25 hours (Last 90 days, all aircraft), 12 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Diamond Aircraft Industries	Registration:	N791MA
Model/Series:	DA 20-C1	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	AF6337
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:		Certified Max Gross Wt.:	1654 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	54.5 Hrs as of last inspection	Engine Manufacturer:	Teledyne Continental
ELT:	Installed, not activated	Engine Model/Series:	IO-240-B
Registered Owner:	On file	Rated Power:	124 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:	PHX,1103 ft msl	Distance from Accident Site:	15 Nautical Miles
Observation Time:	14:51 Local	Direction from Accident Site:	110°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	Broken / 15000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	/ None	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.84 inches Hg	Temperature/Dew Point:	34°C / -3°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ition	
Departure Point:	Glendale, AZ (GEU)	Type of Flight Plan Filed:	None
Destination:	(GEU)	Type of Clearance:	None
Departure Time:	13:45 Local	Type of Airspace:	

Airport Information

Airport:	Glendale Municipal Airport GEU	Runway Surface Type:	Asphalt
Airport Elevation:		Runway Surface Condition:	Dry
Runway Used:	19	IFR Approach:	None
Runway Length/Width:	7150 ft / 100 ft	VFR Approach/Landing:	Full stop;Traffic pattern

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:	33.526943,-112.29528

Administrative Information

Investigator In Charge (IIC):	Cornejo, Tealeye
Additional Participating Persons:	Steve D'urso; Federal Aviation Administration; Scottsdale, AZ
Report Date:	December 13, 2006
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=61544

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