



# Aviation Investigation Final Report

<b>Location:</b>	La Verne, California	<b>Accident Number:</b>	WPR15CA094
<b>Date &amp; Time:</b>	January 27, 2015, 15:00 Local	<b>Registration:</b>	N805ER
<b>Aircraft:</b>	DIAMOND AIRCRAFT IND INC DA 40	<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 - Personal		

## Analysis

The student pilot reported that the purpose of the solo flight was for him to practice soft-field takeoffs from a hard surface runway. During the takeoff roll, the airplane encountered a sudden gust of wind and the student pilot was unable to maintain directional control. The airplane veered to the left of the runway centerline and continued off the surface, colliding with several signs before coming to rest in a grassy area. The airplane sustained substantial damage to the left wing. The student pilot reported that there were no mechanical malfunctions or failures with the airplane that would have precluded normal operation. The student pilot further reported that the accident could have been prevented if he was more vigilant of sudden gusts of wind even in reported calm wind conditions.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The student pilot's loss of directional control during takeoff from a runway, which resulted in a collision with a sign.

## Findings

<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Student/instructed pilot
<b>Environmental issues</b>	Sign/marker - Contributed to outcome

## Factual Information

### History of Flight

<b>Takeoff</b>	Loss of control in flight (Defining event)
<b>Takeoff</b>	Collision with terr/obj (non-CFIT)

### Student pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	31
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Unknown
<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 With waivers/limitations	<b>Last FAA Medical Exam:</b>	August 1, 2014
<b>Occupational Pilot:</b>	<b>Last Flight Review or Equivalent:</b>		
<b>Flight Time:</b>	(Estimated) 78 hours (Total, all aircraft), 78 hours (Total, this make and model), 10 hours (Pilot In Command, all aircraft), 37 hours (Last 90 days, all aircraft), 19 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	DIAMOND AIRCRAFT IND INC	<b>Registration:</b>	N805ER
<b>Model/Series:</b>	DA 40 UNDESIGNAT	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	2003	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	40.316
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	September 12, 2014 Annual	<b>Certified Max Gross Wt.:</b>	2535 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	4495 Hrs at time of accident	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	I0360 SER
<b>Registered Owner:</b>	MILE HIGH LLC	<b>Rated Power:</b>	180 Horsepower
<b>Operator:</b>	MILE HIGH LLC	<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>	SO CAL FLYING CLUB	<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KPOC	<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>	14:45 Local	<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Few / 6000 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/ None
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.15 inches Hg	<b>Temperature/Dew Point:</b>	22°C / 7°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	EL MONTE, CA (EMT )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	La Verne, CA (POC )	<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	14:30 Local	<b>Type of Airspace:</b>	Class D

## Airport Information

<b>Airport:</b>	BRACKETT FIELD POC	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	1013 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	26L	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	4840 ft / 75 ft	<b>VFR Approach/Landing:</b>	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>	34.055,-117.464996(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Smith, Maja
<b>Additional Participating Persons:</b>	MICHAEL J MARCHAND; FAA
<b>Original Publish Date:</b>	April 21, 2015
<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=90661">https://data.nts.gov/Docket?ProjectID=90661</a>

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