



Aviation Investigation Final Report

Location:	Miami, Florida	Accident Number:	GAA19CA040
Date & Time:	October 26, 2018, 11:00 Local	Registration:	N15888
Aircraft:	Piper PA28	Aircraft Damage:	Substantial
Defining Event:	Abnormal runway contact	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The student pilot reported that, during a solo cross-country flight, while landing with a crosswind, the airplane bounced and landed hard. He added that the propeller struck the ground, the airplane "tilted" left, and the left wing then struck the ground. The airplane came to rest in the grass off the runway.

The airplane sustained substantial damage to the engine mount.

The student reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

The airport's automated weather observation system reported that, about the time of the accident, the wind was from 240° at 8 knots. The airplane landed on runway 27R, which resulted in a 4-knot crosswind.

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, which resulted in a hard landing.

Findings

Personnel issues	Aircraft control - Student/instructed pilot
Aircraft	Landing flare - Not attained/maintained

Factual Information

History of Flight

Landing	Abnormal runway contact (Defining event)
Landing	Hard landing
Landing	Collision with terr/obj (non-CFIT)
Landing	Runway excursion

Student pilot Information

Certificate:	Student	Age:	29,Female
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	January 4, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 115.6 hours (Total, all aircraft), 114.4 hours (Total, this make and model), 8 hours (Pilot In Command, all aircraft), 9.1 hours (Last 90 days, all aircraft), 7.5 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N15888
Model/Series:	PA28 140	Aircraft Category:	Airplane
Year of Manufacture:	1972	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	28-7325189
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	September 3, 2018 100 hour	Certified Max Gross Wt.:	2150 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	6025.2 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	C91 installed, not activated	Engine Model/Series:	O-320-E3D
Registered Owner:		Rated Power:	160 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:	KTMB, 10 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	14:53 Local	Direction from Accident Site:	251°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	240°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.88 inches Hg	Temperature/Dew Point:	29°C / 21°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Okeechobee, FL (OBE)	Type of Flight Plan Filed:	VFR
Destination:	Miami, FL (TMB)	Type of Clearance:	VFR
Departure Time:	09:43 Local	Type of Airspace:	Class D

Airport Information

Airport:	MIAMI EXECUTIVE TMB	Runway Surface Type:	Asphalt
Airport Elevation:	10 ft msl	Runway Surface Condition:	Dry
Runway Used:	27R	IFR Approach:	None
Runway Length/Width:	5003 ft / 150 ft	VFR Approach/Landing:	Full stop

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:	25.649166,-80.429168(est)

Administrative Information

Investigator In Charge (IIC):	Swenson, Eric
Additional Participating Persons:	Tony Saavedra; FAA; Miramar, FL
Original Publish Date:	June 5, 2019
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=98570

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The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).