

Aviation Investigation Final Report

Location: San Diego, California Accident Number: WPR23LA091

Date & Time: January 15, 2023, 10:30 Local Registration: N9687J

Aircraft: Piper PA-28-180 Aircraft Damage: Substantial

Defining Event: Miscellaneous/other **Injuries:** 4 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

The flight instructor reported that prior to his arrival, the student pilot conducted a preflight inspection of the airplane. The flight instructor then visually inspected the airplane and did not observe any anomalies. On the takeoff roll, with the student pilot at the controls, the left side of the engine cowling opened just after rotation. The flight instructor took control of the airplane and reduced the engine's power setting to relieve stress on the cowling and abort the take off. However, the flight instructor determined that "was not the solution," applied full power to the engine and elected to initiate a turn toward an alternate runway. The airplane continued to descend and was unable to reach the alternate runway. The flight instructor landed the airplane in muddy terrain off the runway. During the landing roll, the airplane's right main landing gear separated, and the right wing impacted the surface, resulting in substantial damage to the fuselage and right wing. The flight instructor reported that there were no preaccident mechanical malfunctions or failures with the airplane 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 flight instructor's failure to maintain altitude while maneuvering to another runway after the engine cowling opened shortly after takeoff. Contributing to the accident was the failure of both the student pilot and flight instructor to conduct an adequate preflight inspection.

Findings

Personnel issues Preflight inspection - Pilot

Aircraft Fasteners - Incorrect use/operation
Aircraft Altitude - Not attained/maintained

Personnel issues Monitoring other person - Instructor/check pilot

Personnel issues Aircraft control - Instructor/check pilot

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Factual Information

History of Flight

Takeoff Miscellaneous/other (Defining event)
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Flight instructor Information

Certificate:	Commercial; Flight instructor	Age:	30,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	
Instructor Rating(s):	Airplane single-engine; Instrument airplane	Toxicology Performed:	
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	June 6, 2019
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	September 10, 2022
Flight Time:	1132 hours (Total, all aircraft), 259 hours (Total, this make and model), 1026 hours (Pilot In Command, all aircraft), 328 hours (Last 90 days, all aircraft), 87 hours (Last 30 days, all aircraft), 9 hours (Last 24 hours, all aircraft)		

Student pilot Information

Certificate:	Student	Age:	33
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	None None	Last FAA Medical Exam:	October 8, 2022
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	26 hours (Total, all aircraft), 25 hour aircraft)	s (Total, this make and model), 26 ho	urs (Last 90 days, all

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Passenger Information

Certificate:		Age:	
Airplane Rating(s):		Seat Occupied:	Right
Other Aircraft Rating(s):		Restraint Used:	Unknown
Instrument Rating(s):		Second Pilot Present:	
Instructor Rating(s):		Toxicology Performed:	
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:			

Passenger Information

Certificate:		Age:	
Airplane Rating(s):		Seat Occupied:	Left
Other Aircraft Rating(s):		Restraint Used:	Lap only
Instrument Rating(s):		Second Pilot Present:	
Instructor Rating(s):		Toxicology Performed:	
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N9687J
Model/Series:	PA-28-180	Aircraft Category:	Airplane
Year of Manufacture:	1967	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	28-3863
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	October 24, 2022 Continuous airworthiness	Certified Max Gross Wt.:	2400 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3025 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	O-360-A4A
Registered Owner:	N9687J LLC	Rated Power:	180 Horsepower
Operator:	Christopher Cardoza	Operating Certificate(s) Held:	None
Operator Does Business As:	Christopher Cardoza	Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KMYF,418 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	10:00 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 1200 ft AGL	Visibility	8 miles
Lowest Ceiling:	Broken / 8500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	12 knots /	Turbulence Type Forecast/Actual:	/ Terrain-Induced
Wind Direction:	290°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.94 inches Hg	Temperature/Dew Point:	14°C / 11°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ition	
Departure Point:	San Diego, CA (MYF)	Type of Flight Plan Filed:	None
Destination:	Torrence, CA (KTOA)	Type of Clearance:	VFR flight following
Departure Time:	10:30 Local	Type of Airspace:	Class D

Airport Information

Airport:	Montgomery-Gibbs Executive Alrport MYF	Runway Surface Type:	Asphalt
Airport Elevation:	427 ft msl	Runway Surface Condition:	Dry;Wet
Runway Used:	28L	IFR Approach:	None
Runway Length/Width:	3401 ft / 60 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 None	Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	4 None	Latitude, Longitude:	32.813613,-117.1417

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Administrative Information

Investigator In Charge (IIC):	Blocher, Kristyn
Additional Participating Persons:	Roger Messick; Federal Aviation Administration; San Diego, CA Mike Reyes; Federal Aviation Administration; San Diego, CA
Original Publish Date:	March 2, 2023
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=106598

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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