



Aviation Investigation Final Report

Location: Alamogordo, New Mexico **Accident Number:** WPR23LA365

Date & Time: June 28, 2023, 18:33 UTC Registration: N7881N

Aircraft: Cessna R172E Aircraft Damage: Substantial

Defining Event: Hard landing **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that during the landing roll, he felt a shimmy in the front of the airplane. He pulled back on the yoke to lighten the weight on the nose. The shimmy didn't reduce, so he pulled the yoke back further, which caused the airplane to porpoise and land hard. The airplane sustained substantial damage to the floor and fuselage.

The pilot reported no mechanical malfunctions or failures that would have precluded normal operations.

Probable Cause and Findings

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

Failure of the pilot to maintain control of the airplane during the landing.

Findings

Personnel issues Aircraft control - Pilot

Factual Information

History of Flight

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Pilot Information

Certificate:	Private	Age:	61.Male
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Airplane Rating(s):	Single-engine land	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:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	April 17, 2023
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	122 hours (Total, all aircraft), 24 hours (Total, this make and model), 46 hours (Pilot In Command, all aircraft), 0 hours (Last 90 days, all aircraft), 0 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N7881N
Model/Series:	R172E	Aircraft Category:	Airplane
Year of Manufacture:	1967	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	R172-0272
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	2500 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:		Engine Model/Series:	
Registered Owner:	U S AIR FORCE-OWNER	Rated Power:	
Operator:	On file	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	5 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.02 inches Hg	Temperature/Dew Point:	32°C / 0°C
Precipitation and Obscuration:			
Departure Point:	Alamogordo, NM	Type of Flight Plan Filed:	None
Destination:	Alamogordo, NM	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class G

Airport Information

Airport:	Alamogordo/White Sands Regional Wirport ALM	Runway Surface Type:	Asphalt
Airport Elevation:	4199 ft msl	Runway Surface Condition:	Dry
Runway Used:	22	IFR Approach:	None
Runway Length/Width:	9207 ft / 150 ft	VFR Approach/Landing:	Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	32.83899,-105.9918

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Administrative Information

Investigator In Charge (IIC):	Salazar, Fabian
Additional Participating Persons:	Aaron Raimist; Federal Aviation Administration; Albuquerque, NM
Original Publish Date:	May 29, 2024
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=193479

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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