

Aviation Investigation Final Report

Location: Minden, Nevada Accident Number: WPR13CA148

Date & Time: March 12, 2013, 12:27 Local Registration: N8533P

Aircraft: Piper PA-24-400 Aircraft Damage: Substantial

Defining Event: Hard landing **Injuries:** 1 Minor

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that, during the landing, he crossed the threshold at 85 to 90 knots with 15 degrees of flaps. The pilot used the electric trim as the airplane "floated" about 3 to 4 feet above the runway. The airplane subsequently touched down hard, and it bounced three times, striking the propeller on the runway each time. The pilot was unable to maintain directional control by applying brakes and making rudder control inputs, and the airplane departed the side of the runway, collapsing the landing gear. Postaccident examinations revealed substantial damage to the airplane's lower belly main structure from the forward bulkhead firewall to just aft of the wing. The pilot reported no preimpact mechanical failures or malfunctions 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 pilot's improper flare, which resulted in a bounced landing and a loss of directional control.

Findings

Aircraft Descent/approach/glide path - Not attained/maintained

Aircraft Landing flare - Incorrect use/operation

Aircraft Directional control - Not attained/maintained

Personnel issues Aircraft control - Pilot

Personnel issues Incorrect action performance - Pilot

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Factual Information

History of Flight

Landing-flare/touchdown	Hard landing (Defining event)
Landing-landing roll	Loss of control on ground
Landing-landing roll	Runway excursion

Pilot Information

Certificate:	Private	Age:	77,Male
Airplane Rating(s):	Single-engine land; Multi-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 With waivers/limitations	Last FAA Medical Exam:	March 21, 2011
Occupational Pilot:	No	Last Flight Review or Equivalent:	April 30, 2011
Flight Time:	4000 hours (Total, all aircraft), 60 hours (Total, this make and model), 10 hours (Last 90 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N8533P
Model/Series:	PA-24-400	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	26-114
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	August 15, 2012 Annual	Certified Max Gross Wt.:	3600 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	4540 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	10-720
Registered Owner:	On file	Rated Power:	400 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:	CXP,4705 ft msl	Distance from Accident Site:	11 Nautical Miles
Observation Time:	12:35 Local	Direction from Accident Site:	3°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	70°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.25 inches Hg	Temperature/Dew Point:	17°C / -8°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Manti, UT (41U)	Type of Flight Plan Filed:	None
Destination:	Minden, NV (MEV)	Type of Clearance:	None
Departure Time:	10:15 Local	Type of Airspace:	

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Airport Information

Airport:	Minden-Tahoe Airport MEV	Runway Surface Type:	Asphalt
Airport Elevation:	4717 ft msl	Runway Surface Condition:	Dry
Runway Used:	34	IFR Approach:	None
Runway Length/Width:	7400 ft / 100 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	38.998054,-119.752502

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Administrative Information

Investigator In Charge (IIC):	Struhsaker, James	
Additional Participating Persons:	Lee A Oscar; FAA FSDO; Reno, NV	
Original Publish Date:	June 24, 2013	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=86407	

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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