



Aviation Investigation Final Report

Location: Hebron, Nebraska Accident Number: CEN12CA173

Date & Time: February 25, 2012, 09:30 Local Registration: N1213C

Aircraft: Piper PA-22-135 Aircraft Damage: Substantial

Defining Event: Ground collision **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that he could not start the airplane's engine using the electric starter, so he elected to turn the propeller by hand to start the engine (hand-propping). He stated that when the engine started, the airplane's parking brake did not hold and that the airplane began to roll. He was unable to open the door to reduce the throttle setting, and the airplane subsequently struck a building. The airplane sustained substantial damage to the left wing, the fuselage structure near the firewall, and the engine mount structure.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's did not properly secure the airplane prior to rotating the propeller by hand, resulting in inadvertent movement of the airplane and collision with a building.

Findings

Personnel issues Decision making/judgment - Pilot

Aircraft Tie-down/mooring - Incorrect use/operation

Factual Information

History of Flight

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Pilot Information

Certificate:	Private	Age:	63,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	
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:	April 13, 2011
Occupational Pilot:	No	Last Flight Review or Equivalent:	May 31, 2011
Flight Time:	180 hours (Total, all aircraft), 101 hours (Total, this make and model), 129 hours (Pilot In Command, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N1213C
Model/Series:	PA-22-135	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-1021
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	April 15, 2011 Annual	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1412 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	0-290 SERIES
Registered Owner:	On file	Rated Power:	135 Horsepower
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	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	120°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.06 inches Hg	Temperature/Dew Point:	24°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Hebron, NE (HJH)	Type of Flight Plan Filed:	None
Destination:	Concordia, KS (CNK)	Type of Clearance:	None
Departure Time:	09:30 Local	Type of Airspace:	

Airport Information

Airport:	Hebron Municipal Airport HJH	Runway Surface Type:	
Airport Elevation:	1466 ft msl	Runway Surface Condition:	
Runway Used:		IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

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:	40.152221,-97.586944

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Administrative Information

Investigator In Charge (IIC):	Brannen, John
Additional Participating Persons:	Owen Grimm; FAA-Lincoln, NE FSDO; Lincoln, NE
Original Publish Date:	May 21, 2012
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=82991

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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