



Aviation Investigation Final Report

Location:	Scappoose, Oregon	Accident Number:	GAA17CA199
Date & Time:	April 3, 2017, 19:30 Local	Registration:	N7822D
Aircraft:	Piper PA 22	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The student pilot in the tailwheel-equipped airplane reported that he accomplished several takeoffs and landings on the asphalt runway during his solo flight in the pattern. He reported that, during his sixth landing, the airplane swerved to the left and subsequently swerved to the right during the landing roll. He attempted to control the airplane's direction with rudder pedal application, but he inadvertently applied the toe brakes, and the airplane nosed over. The airplane sustained substantial damage to both left side wing struts, the rudder, and the windscreen.

The student 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 student pilot's loss of directional control during the landing roll and his subsequent inadvertent brake application, which resulted in a nose-over.

Findings

Aircraft	Directional control - Not attained/maintained
Aircraft	Brake - Unintentional use/operation
Personnel issues	Aircraft control - Student/instructed pilot

Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Nose over/nose down

Pilot Information

Certificate:	Student	Age:	50, Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	October 28, 2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 27, 2017
Flight Time:	(Estimated) 106 hours (Total, all aircraft), 41 hours (Total, this make and model), 16 hours (Pilot In Command, all aircraft), 4 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N7822D
Model/Series:	PA 22	Aircraft Category:	Airplane
Year of Manufacture:	1957	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-5468
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	January 3, 2017 Annual	Certified Max Gross Wt.:	2000 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-320
Registered Owner:	On file	Rated Power:	150 Horsepower
Operator:	On file	Operating Certificate(s) Held:	Pilot school (141)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Night
Observation Facility, Elevation:	KSPB,55 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	03:53 Local	Direction from Accident Site:	19°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	270°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.07 inches Hg	Temperature/Dew Point:	7°C / 3°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Scappoose, OR (SPB)	Type of Flight Plan Filed:	None
Destination:	Scappoose, OR (SPB)	Type of Clearance:	None
Departure Time:	18:30 Local	Type of Airspace:	Class G

Airport Information

Airport:	SCAPPOOSE INDUSTRIAL AIRPARK SPB	Runway Surface Type:	Asphalt
Airport Elevation:	58 ft msl	Runway Surface Condition:	Dry
Runway Used:	15	IFR Approach:	None
Runway Length/Width:	5100 ft / 100 ft	VFR Approach/Landing:	Full stop;Traffic pattern

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:	45.77111,-122.861946(est)

Administrative Information

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Richard Chagnon; FAA; Portland, OR
Original Publish Date:	October 31, 2017
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=94898

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