



National Transportation Safety Board Aviation Accident Data Summary

Location:	Fort Pierce, FL	Accident Number:	ERA14CA121
Date & Time:	02/03/2014, 0953 EST	Registration:	N828BM
Aircraft:	CESSNA 172R	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Analysis

According to the student pilot, this was his first solo flight and he was conducting touch-and-go landings and takeoffs. On the third landing, he flared the airplane high; it landed hard and bounced back into the air. He then pitched the nose of the airplane up and the tail section struck the runway prior to landing. The student pilot taxied the airplane off of the active runway and brought it to a full stop. A visual examination revealed minor damage to the exterior of the airplane. The student pilot reported no preimpact mechanical malfunctions or failures with the airplane that would have precluded normal operation. The airplane was examined by maintenance personnel for further damage and released back into service. The airplane was used during another flight, and flight controls were noted as difficult to manipulate. The airplane was returned for further examination and during the second examination, substantial damage was noted to the firewall from the first event.

Flight Events

Landing-flare/touchdown - Hard landing

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The student pilot's improper landing flare, which resulted in a hard landing.

Findings

Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Landing flare-Incorrect use/operation - C

Personnel issues-Task performance-Use of equip/info-Aircraft control-Student/instructed pilot - C
Personnel issues-Action/decision-Info processing/decision-Identification/recognition-Maintenance personnel

Student Pilot Information

Certificate:	Student	Age:	20
Airplane Rating(s):	None	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	29 hours (Total, all aircraft), 29 hours (Total, this make and model), 1 hours (Pilot In Command, all aircraft), 29 hours (Last 90 days, all aircraft), 18 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N828BM
Model/Series:	172R	Engines:	1 Reciprocating
Operator:	CHRISTIANSEN AVIATION INC	Engine Manufacturer:	LYCOMING
Air Carrier Operating Certificate:	Pilot School (141)	Engine Model/Series:	I0360 SER
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	FPR, 23 ft msl	Weather Information Source:	Pilot
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	None
Condition of Light:	Day	Wind Speed/Gusts, Direction:	Calm
Temperature:	22° C / 20° C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Fort Pierce, FL (FPR)	Destination:	Fort Pierce, FL (FPR)

Airport Information

Airport:	St Lucie County International (FPR)	Runway Surface Type:	Asphalt
Runway Used:	10	Runway Surface Condition:	Dry
Runway Length/Width:	6492 ft / 150 ft		

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None

Administrative Information

Investigator In Charge (IIC):	Eric Alleyne	Adopted Date:	04/23/2014
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=88801		

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