



National Transportation Safety Board Aviation Accident Data Summary

Location:	Elyria, OH	Accident Number:	CEN12LA676
Date & Time:	07/19/2012, 2200 EDT	Registration:	N21ZA
Aircraft:	FLIGHT DESIGN CTLS	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot reported that, on the day of the accident, he had accomplished three landings in the accident airplane and that he was pleased with these landings. Forty-five minutes after the last day landing, he took off for a night flight. During the first attempted landing, he misjudged the flare, and the airplane bounced. He subsequently performed a go-around and again misjudged the landing flare. The airplane subsequently bounced hard on the runway, which resulted in a flat nosewheel tire and firewall and right main landing gear damage. Although examination of the right main landing gear leg revealed several manufacturing defects that have since been addressed by the landing gear leg manufacturer, the accident was likely caused by the pilot's misjudged landing flare, which resulted in a hard landing and the subsequent right main landing gear damage.

Flight Events

Landing-flare/touchdown - Abnormal runway contact

Probable Cause

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

Findings

Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Landing flare-Not attained/maintained - C

Personnel issues-Task performance-Use of equip/info-Aircraft control-Pilot - C

Organizational issues-Development-Manufacture/production-Equipment manufacture-Manufacturer

Pilot Information

Certificate:	Private	Age:	55
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	119 hours (Total, all aircraft), 48 hours (Total, this make and model), 59 hours (Pilot In Command, all aircraft), 1 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	FLIGHT DESIGN	Registration:	N21ZA
Model/Series:	CTLS	Engines:	1 Reciprocating
Operator:	Zone Aviation	Engine Manufacturer:	Rotax
Operating Certificate(s) Held:	None	Engine Model/Series:	912
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night
Observation Facility, Elevation:	LPR, 793 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None	Wind Speed/Gusts, Direction:	9 knots / , 70°
Temperature:	23°C	Visibility	9 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Elyria, OH (LPR)	Destination:	Elyria, OH (LPR)

Airport Information

Airport:	Lorain County Regional Airport (LPR)	Runway Surface Type:	Asphalt
Runway Used:	07	Runway Surface Condition:	Dry
Runway Length/Width:	5002 ft / 100 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
Latitude, Longitude:	41.344167, -82.177778		

Administrative Information

Investigator In Charge (IIC):	John M Brannen	Adopted Date:	12/15/2014
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=85400		

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accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

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