



# **Aviation Investigation Final Report**

Location: Topeka, Kansas Accident Number: GAA19CA006

Date & Time: October 5, 2018, 20:45 Local Registration: N642AM

Aircraft: Zenair CH 2000 Aircraft Damage: Substantial

**Defining Event:** Abnormal runway contact **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

The pilot reported that, following his first solo flight in the recently acquired airplane, during landing, the airplane crossed the runway threshold about 70 knots airspeed with full flaps, and he placed the throttle in the idle position. During the landing flare, the airplane sank abruptly and touched down hard. The airplane bounced and exited the left side of the runway. The pilot attempted to go around, but the airplane descended and impacted the grass safety area on the left side of the runway. The nose landing gear separated from the airplane.

The airplane sustained substantial damage to the right fuselage formers.

The pilot reported that there were no 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 pilot's improper landing flare, which resulted in a hard, bounced landing and a subsequent runway excursion.

## Findings

Personnel issues	Aircraft control - Pilot

Aircraft Landing flare - Not attained/maintained

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## **Factual Information**

## **History of Flight**

Landing-flare/touchdown	Hard landing
Landing-flare/touchdown	Abnormal runway contact (Defining event)
Landing-flare/touchdown	Runway excursion
Landing-flare/touchdown	Attempted remediation/recovery
Landing-flare/touchdown	Collision with terr/obj (non-CFIT)

#### **Pilot Information**

Certificate:	Private	Age:	57,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	BasicMed With waivers/limitations	Last FAA Medical Exam:	August 23, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	September 16, 2018
Flight Time:	(Estimated) 222 hours (Total, all aircraft), 3 hours (Total, this make and model), 159 hours (Pilot In Command, all aircraft), 23 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

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### Aircraft and Owner/Operator Information

Aircraft Make:	Zenair	Registration:	N642AM
Model/Series:	CH 2000 Undesignat	Aircraft Category:	Airplane
Year of Manufacture:	2000	Amateur Built:	
Airworthiness Certificate:	None	Serial Number:	20-0053
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	August 7, 2018 Annual	Certified Max Gross Wt.:	1692 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1866.5 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	C91A installed	Engine Model/Series:	0-235-N2C
Registered Owner:		Rated Power:	116 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Night
Observation Facility, Elevation:	KTOP,885 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	01:53 Local	Direction from Accident Site:	327°
<b>Lowest Cloud Condition:</b>		Visibility	10 miles
Lowest Ceiling:	Broken / 6000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	170°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.8 inches Hg	Temperature/Dew Point:	26°C / 20°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Lawrence, KS (LWC)	Type of Flight Plan Filed:	None
Destination:	Topeka, KS (TOP)	Type of Clearance:	None
Departure Time:	07:30 Local	Type of Airspace:	Class D

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#### **Airport Information**

Airport:	PHILIP BILLARD MUNI TOP	Runway Surface Type:	Asphalt
Airport Elevation:	881 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	4331 ft / 75 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:	39.068889,-95.622497(est)

#### **Administrative Information**

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Timothy Chanay; FAA; Wichita, KS
Original Publish Date:	September 26, 2019
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=98427

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the 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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