



# Aviation Investigation Final Report

<b>Location:</b>	Oshkosh, Wisconsin	<b>Accident Number:</b>	CEN22LA339
<b>Date &amp; Time:</b>	July 24, 2022, 17:50 Local	<b>Registration:</b>	N731AJ
<b>Aircraft:</b>	Cessna T310R	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Hard landing	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The pilot stated that his landing to runway 36L was firm but not hard enough to “break anything”. He did not perceive that there was any side loading. The pilot applied brakes and felt the airplane pull to the right, so he steered the airplane to the grass on the right. The pilot stated that the right main landing gear collapsed, and the right wing hit the ground. An onsite examination revealed that the airplane struck a runway sign as it departed the runway to the right. Three separate tracks, consistent with both main and the nose landing gear, extended from the side of the runway and terminated at the airplane. The airplane sustained substantial damage to the right wing. After the airplane was lifted the right main landing gear extended and the downlock was found to be broken. A postaccident examination of the downlock and right main landing gear revealed no anomalies that would have precluded normal operations. At the time of the landing wind was 300° at 7 knots with gusts to 19 knots.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot’s loss of control while landing.

## Findings

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<b>Aircraft</b>	(general) - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Pilot

## Factual Information

### History of Flight

<b>Landing-flare/touchdown</b>	Hard landing (Defining event)
<b>Landing-landing roll</b>	Runway excursion
<b>Landing-landing roll</b>	Landing gear collapse

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	37, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	3-point
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	
<b>Medical Certification:</b>	Class 3 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	December 17, 2021
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	June 27, 2022
<b>Flight Time:</b>	380 hours (Total, all aircraft), 30 hours (Total, this make and model), 265 hours (Pilot In Command, all aircraft), 30 hours (Last 90 days, all aircraft), 17 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N731AJ
<b>Model/Series:</b>	T310R	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1976	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	310R0731
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	April 20, 2022 Annual	<b>Certified Max Gross Wt.:</b>	
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>	4706.9 Hrs at time of accident	<b>Engine Manufacturer:</b>	Continental
<b>ELT:</b>	Installed	<b>Engine Model/Series:</b>	TSIO-520-NB
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	325 Horsepower
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KOSH,785 ft msl	<b>Distance from Accident Site:</b>	0 Nautical Miles
<b>Observation Time:</b>	17:53 Local	<b>Direction from Accident Site:</b>	328°
<b>Lowest Cloud Condition:</b>	Few / 6000 ft AGL	<b>Visibility</b>	2 miles
<b>Lowest Ceiling:</b>		<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	7 knots / 19 knots	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	300°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29.87 inches Hg	<b>Temperature/Dew Point:</b>	26°C / 15°C
<b>Precipitation and Obscuration:</b>	Moderate - None - Haze		
<b>Departure Point:</b>	Cedar Rapids, IA (KCID)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Oshkosh, WI	<b>Type of Clearance:</b>	VFR flight following
<b>Departure Time:</b>	16:30 Local	<b>Type of Airspace:</b>	Class D

## Airport Information

<b>Airport:</b>	WITTMAN RGNL OSH	<b>Runway Surface Type:</b>	Concrete
<b>Airport Elevation:</b>	808 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	36	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	8002 ft / 150 ft	<b>VFR Approach/Landing:</b>	Full stop

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>		<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 None	<b>Latitude, Longitude:</b>	43.98,-88.55

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Rodi, Jennifer
<b>Additional Participating Persons:</b>	Timothy Spreen; FAA FSDO; Milwaukee , WI
<b>Original Publish Date:</b>	January 9, 2023
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class 4</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=105566">https://data.nts.gov/Docket?ProjectID=105566</a>

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