



# Aviation Investigation Final Report

<b>Location:</b>	Concord, California	<b>Accident Number:</b>	WPR20CA174
<b>Date &amp; Time:</b>	April 12, 2020, 14:30 Local	<b>Registration:</b>	N111XW
<b>Aircraft:</b>	Extra EA 300	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The pilot of the tailwheel equipped airplane reported that, after touchdown he applied the brakes and the tail very abruptly "whipped around" 180°. The left main landing gear collapsed, and the left wing tip struck the runway surface, resulting in substantial damage to the wing spar. The pilot reported that there were no mechanical failures or malfunctions with the airplane that would have precluded normal operations.

## Probable Cause and Findings

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

The pilot's loss of directional control during the landing roll, which resulted in a ground loop.

## Findings

<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Pilot

## Factual Information

### History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Landing gear collapse

### Pilot Information

Certificate:	Private	Age:	55, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Rear
Other Aircraft Rating(s):	None	Restraint Used:	5-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	January 10, 2019
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 28, 2019
Flight Time:	1145 hours (Total, all aircraft), 26 hours (Total, this make and model), 1017 hours (Pilot In Command, all aircraft), 3 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

Aircraft Make:	Extra	Registration:	N111XW
Model/Series:	EA 300 Undesignat	Aircraft Category:	Airplane
Year of Manufacture:	1997	Amateur Built:	
Airworthiness Certificate:	Aerobatic; Normal	Serial Number:	064
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	February 6, 2020 Annual	Certified Max Gross Wt.:	2095 lbs
Time Since Last Inspection:	16 Hrs	Engines:	Reciprocating
Airframe Total Time:	1148 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	C126 installed, not activated	Engine Model/Series:	AEIO-540
Registered Owner:	On file	Rated Power:	300 Horsepower
Operator:	On file	Operating Certificate(s) Held:	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>	CCR,26 ft msl	<b>Distance from Accident Site:</b>	0 Nautical Miles
<b>Observation Time:</b>	14:48 Local	<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Few / 3000 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	3 knots /	<b>Turbulence Type Forecast/Actual:</b>	None / None
<b>Wind Direction:</b>	280°	<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	30.01 inches Hg	<b>Temperature/Dew Point:</b>	19°C / 11°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Concord, CA (CCR)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Concord, CA (CCR)	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	14:06 Local	<b>Type of Airspace:</b>	Unknown

## Airport Information

<b>Airport:</b>	Buchanan Field Airport CCR	<b>Runway Surface Type:</b>	Asphalt;Concrete
<b>Airport Elevation:</b>	26 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	19R	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	5001 ft / 150 ft	<b>VFR Approach/Landing:</b>	Full stop;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	37.953609,-122.053886(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Link, Samantha
<b>Additional Participating Persons:</b>	David Vickers; Federal Aviation Administration; Sacramento, CA
<b>Original Publish Date:</b>	February 2, 2021
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class 4</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=101420">https://data.nts.gov/Docket?ProjectID=101420</a>

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