



Aviation Investigation Final Report

Location:	Breckenridge, Texas	Accident Number:	GAA16CA103
Date & Time:	January 18, 2016, 15:00 Local	Registration:	N73GT
Aircraft:	AVIAT AIRCRAFT INC A-1C	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot reported he was practicing touch-and-go-landings. When the airplane touched down on the runway, the airplane veered to the right, he applied left rudder, but had applied too much and the airplane veered to the left. The pilot reported that he applied right rudder but had once again used too much and the airplane ground-looped to the right, and departed the runway surface. The left main landing gear collapsed and the left wing impacted the ground. The airplane sustained substantial damage to the left aileron.

The pilot reported that there were no preimpact mechanical failures or malfunctions with the airframe or engine 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 failure to maintain directional control during the landing roll, which resulted in a ground-loop.

Findings

Personnel issues

Aircraft control - Pilot

Aircraft

Directional control - Not attained/maintained

Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Collision with terr/obj (non-CFIT)
Landing-landing roll	Landing gear collapse

Pilot Information

Certificate:	Private	Age:	48, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
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:	March 12, 2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	January 13, 2015
Flight Time:	(Estimated) 1230 hours (Total, all aircraft), 60 hours (Total, this make and model), 1112 hours (Pilot In Command, all aircraft), 40 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

Aircraft Make:	AVIAT AIRCRAFT INC	Registration:	N73GT
Model/Series:	A-1C 180	Aircraft Category:	Airplane
Year of Manufacture:	2009	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	3072
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	January 12, 2016 Annual	Certified Max Gross Wt.:	2250 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	132.7 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-360-A1P
Registered Owner:	On file	Rated Power:	180 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KBKD, 1283 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	20:55 Local	Direction from Accident Site:	188°
Lowest Cloud Condition:	Clear	Visibility:	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	230°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.27 inches Hg	Temperature/Dew Point:	8°C / -3°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Breckenridge, TX (BKD)	Type of Flight Plan Filed:	None
Destination:	Breckenridge, TX (BKD)	Type of Clearance:	None
Departure Time:	15:00 Local	Type of Airspace:	Class G

Airport Information

Airport:	STEPHENS COUNTY BKD	Runway Surface Type:	Concrete
Airport Elevation:	1284 ft msl	Runway Surface Condition:	Dry
Runway Used:	17	IFR Approach:	None
Runway Length/Width:	4997 ft / 100 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:	32.718887,-98.89167(est)

Administrative Information

Investigator In Charge (IIC):	Bigelow, Bradley
Additional Participating Persons:	William J Fitzgerald; Federal Aviation Administration; Lubbock, TX
Original Publish Date:	March 14, 2016
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=92599

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The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, “accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person” (Title 49 *Code of Federal Regulations* section 831.4). Assignment of fault or legal liability is not relevant to the NTSB’s statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 *United States Code* section 1154(b)). A factual report that may be admissible under 49 *United States Code* section 1154(b) is available [here](#).