



Aviation Investigation Final Report

Location: Chandler, Arizona Accident Number: GAA18CA256

Date & Time: May 5, 2018, 11:05 Local Registration: N76SC

Aircraft: Cessna A185 Aircraft Damage: Substantial

Defining Event: Loss of control on ground **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot of the tailwheel-equipped airplane reported that, during final approach, the airplane required about 10° of crab to the right to maintain alignment with the runway. During the landing flare, he reduced power to idle, slowly applied rudder to align the fuselage with the runway centerline, and added right aileron to counter the crosswind. He added that, during the three-point landing, the airplane bounced. During the landing roll, he had full right aileron countering the wind when a "perceived" gust lifted the right wing. He held full right aileron, full aft yoke, and used the rudder to maintain alignment. Subsequently, about 40 knots groundspeed, the left main landing gear collapsed, and the left wing impacted the runway.

The airplane sustained substantial damage to the left wing and aileron.

The pilot reported that the left main landing gear detached from the airplane.

The automated weather observation system located at the accident airport reported that, about 20 minutes before the accident, the wind was from 110° at 8 knots, gusting to 19 knots. The same observation system reported that, about 10 minutes after the accident, the wind was from 150° at 13 knots, gusting to 21 knots. The pilot landed on runway 4R.

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 landing in gusting tailwind conditions.

Findings

Personnel issues Aircraft control - Pilot

Aircraft Directional control - Not attained/maintained

Environmental issues Gusts - Effect on operation

Environmental issues Tailwind - Effect on operation

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Factual Information

History of Flight

Approach	Other weather encounter	
Landing	Abnormal runway contact	
Landing	Loss of control on ground (Defining event)	
Landing	Landing gear collapse	
Landing	Part(s) separation from AC	

Pilot Information

Certificate:	Commercial	Age:	76,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Waiver time limited special	Last FAA Medical Exam:	June 16, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	June 15, 2017
Flight Time:	(Estimated) 6250 hours (Total, all aircraft), 26 hours (Total, this make and model), 6150 hours (Pilot In Command, all aircraft), 26 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N76SC
Model/Series:	A185 F	Aircraft Category:	Airplane
Year of Manufacture:	1981	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18504206
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	January 18, 2018 Annual	Certified Max Gross Wt.:	3500 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	5188.1 Hrs	Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	IO-520-D
Registered Owner:		Rated Power:	300 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:	KCHD,1243 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	18:15 Local	Direction from Accident Site:	174°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	13 knots / 21 knots	Turbulence Type Forecast/Actual:	Convective / None
Wind Direction:	150°	Turbulence Severity Forecast/Actual:	Moderate / N/A
Altimeter Setting:	29.97 inches Hg	Temperature/Dew Point:	34°C / -4°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	PALM SPRINGS, CA (PSP)	Type of Flight Plan Filed:	VFR
Destination:	Chandler, AZ (CHD)	Type of Clearance:	VFR
Departure Time:	09:00 Local	Type of Airspace:	Class D

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Airport Information

Airport:	CHANDLER MUNI CHD	Runway Surface Type:	Asphalt
Airport Elevation:	1243 ft msl	Runway Surface Condition:	Dry
Runway Used:	04R	IFR Approach:	None
Runway Length/Width:	4870 ft / 75 ft	VFR Approach/Landing:	Full stop;Straight-in;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	33.271667,-111.813331(est)

Administrative Information

Investigator In Charge (IIC):	Swenson, Eric
Additional Participating Persons:	Scott Hutson; FAA; Scottsdale, AZ
Original Publish Date:	October 24, 2018
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=97185

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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