



Aviation Investigation Final Report

Location:	Chandler, Arizona	Accident Number:	WPR19TA031
Date & Time:	November 5, 2018, 10:19 Local	Registration:	N9299B (A1); N419PA (A2)
Aircraft:	Piper PA28 (A1); Piper PA28 (A2)	Aircraft Damage:	Substantial (A1); Minor (A2)
Defining Event:	Ground collision	Injuries:	2 None (A1); 1 None (A2)
Flight Conducted Under:	Part 91: General aviation - Instructional (A1); Part 91: General aviation - Instructional (A2)		

Analysis

On November 5, 2018, about 1019 mountain standard time, a Piper PA28-181, N419PA, and a Piper PA28-181, N9299B, collided on the ground at Chandler Municipal Airport (CHD), Chandler, Arizona. The student pilot in N419PA, and the student pilot and airline transport pilot onboard N9299B were not injured. Both airplanes were operated by AeroGuard Flight Training Center under the provisions of Title 14 *Code of Federal Regulations* Part 91.

According to the operator, the student pilot had landed and was taxiing back to the runway for takeoff. The pilot of the second airplane was undergoing a practical test and his airplane was stationary as he completed pre-takeoff checks in the run-up area. The student arrived at the run-up area, completed his pre-takeoff checks, and subsequently attempted to taxi around the left side of the second airplane, during which his right wing impacted the trailing edge of the second airplane's left wing.

Examination of both airplanes by a Federal Aviation Administration inspector, revealed that N9299B sustained substantial damage to the left aileron, while N419PA sustained minor damage to the right wing.

Probable Cause and Findings

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

The student pilot's failure to maintain a safe distance from the other airplane while taxiing, resulting in a ground collision.

Findings

Personnel issues (A1)	Monitoring other aircraft - Student/instructed pilot
Environmental issues (A1)	Aircraft - Effect on equipment
Personnel issues (A2)	Monitoring other aircraft - Pilot of other aircraft

Factual Information

History of Flight

Standing-engine(s) operating (A1)	Ground collision (Defining event)
Taxi-to runway (A2)	Ground collision

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Student pilot Information (A1)

Certificate:	Student	Age:	23, Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	April 27, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 109 hours (Total, all aircraft), 109 hours (Total, this make and model), 10 hours (Pilot In Command, all aircraft), 52 hours (Last 90 days, all aircraft), 17 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

Check pilot Information (A1)

Certificate:	Airline transport	Age:	Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	June 1, 2018
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:			

Student pilot Information (A2)

Certificate:	Student	Age:	25,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	April 27, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 87.5 hours (Total, all aircraft), 87.5 hours (Total, this make and model), 9.8 hours (Pilot In Command, all aircraft), 50 hours (Last 90 days, all aircraft), 26.1 hours (Last 30 days, all aircraft), 2.5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information (A1)

Aircraft Make:	Piper	Registration:	N9299B
Model/Series:	PA28 181	Aircraft Category:	Airplane
Year of Manufacture:	1998	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	2843116
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	November 1, 2018 AAIP	Certified Max Gross Wt.:	2550 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	19272 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	O-360-A4M
Registered Owner:		Rated Power:	180 Horsepower
Operator:		Operating Certificate(s) Held:	Pilot school (141)

Aircraft and Owner/Operator Information (A2)

Aircraft Make:	Piper	Registration:	N419PA
Model/Series:	PA28 181	Aircraft Category:	Airplane
Year of Manufacture:	2000	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	2843413
Landing Gear Type:	Tricycle	Seats:	
Date/Type of Last Inspection:	Continuous airworthiness	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:	C126 installed, not activated	Engine Model/Series:	O-360-A1D
Registered Owner:		Rated Power:	180 Horsepower
Operator:		Operating Certificate(s) Held:	Pilot school (141)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	CHD,1243 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	09:47 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.92 inches Hg	Temperature/Dew Point:	20°C / 5°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Chandler, AZ (CHD) (A1); Tucson, AZ (RYN) (A2)	Type of Flight Plan Filed:	VFR (A1); VFR (A2)
Destination:	Chandler, AZ (CHD) (A1); Tucson, AZ (RYN) (A2)	Type of Clearance:	VFR flight following (A1); VFR flight following (A2)
Departure Time:		Type of Airspace:	Class D (A1); Class D (A2)

Airport Information

Airport:	Chandler Muni CHD	Runway Surface Type:	Asphalt
Airport Elevation:	1243 ft msl	Runway Surface Condition:	Dry
Runway Used:	04L	IFR Approach:	None
Runway Length/Width:	4401 ft / 75 ft	VFR Approach/Landing:	None

Wreckage and Impact Information (A1)

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	33.269165,-111.811111(est)

Wreckage and Impact Information (A2)

Crew Injuries:	1 None	Aircraft Damage:	Minor
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	33.269165,-111.811111(est)

Administrative Information

Investigator In Charge (IIC):	Nixon, Albert		
Additional Participating Persons:	Barry Miller; Federal Aviation Administration; Scottsdale, AZ		
Original Publish Date:	September 16, 2021	Investigation Class:	3
Note:	The NTSB did not travel to the scene of this accident.		
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=98676		

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