



Aviation Investigation Final Report

Location:	Hollywood, Florida	Accident Number:	GAA19CA190
Date & Time:	March 21, 2019, 11:00 Local	Registration:	N20521
Aircraft:	Cessna 172	Aircraft Damage:	Minor
Defining Event:	Ground collision	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The student pilot reported that, after landing, she and the flight instructor requested to taxi back to the runway for traffic pattern practice. They were instructed to taxi to the runway at a taxiway intersection. They complied and lined up behind another aircraft holding short of the runway. She added that, while stopped and waiting for a takeoff clearance, she felt the airplane shake. She turned around and saw that another airplane had struck their airplane's vertical stabilizer and rudder.

The solo student pilot in the other airplane reported that, after landing, during taxi from the runway to parking, he saw an airplane holding short of the runway at a taxiway intersection. He thought there was enough clearance to taxi around the airplane, but his airplane's left wing struck the stopped airplane.

The stopped airplane sustained substantial damage to the vertical stabilizer and rudder.

The student pilot of the stopped airplane and the flight school manager for the taxiing airplane reported that there were no preaccident mechanical failures or malfunctions with either of the airplanes 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 student pilot's failure to maintain adequate clearance from the stopped airplane while attempting to taxi around it.

Findings

Personnel issues	Monitoring other aircraft - Student/instructed pilot
Environmental issues	Aircraft - Effect on operation

Factual Information

History of Flight

Taxi-from runway	Ground collision (Defining event)
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Student pilot Information

Certificate:	Student	Age:	19,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	December 24, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 26.3 hours (Total, all aircraft), 26.3 hours (Total, this make and model), 26.3 hours (Last 90 days, all aircraft), 11.1 hours (Last 30 days, all aircraft), 1.3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N20521
Model/Series:	172 M	Aircraft Category:	Airplane
Year of Manufacture:	1973	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	17261359
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	February 28, 2019 100 hour	Certified Max Gross Wt.:	2300 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	17819.6 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	C91 installed, not activated	Engine Model/Series:	O-320-E2D
Registered Owner:		Rated Power:	150 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:	KHWO, 9 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	14:53 Local	Direction from Accident Site:	280°
Lowest Cloud Condition:	Few / 6000 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	350°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.02 inches Hg	Temperature/Dew Point:	22°C / 17°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Hollywood, FL (HWO)	Type of Flight Plan Filed:	VFR
Destination:	Hollywood, FL (HWO)	Type of Clearance:	None
Departure Time:	11:00 Local	Type of Airspace:	Class D

Airport Information

Airport:	NORTH PERRY HWO	Runway Surface Type:	Asphalt
Airport Elevation:	8 ft msl	Runway Surface Condition:	Dry
Runway Used:		IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

Wreckage and Impact Information

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:	25.998888,-80.24028(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Tarja Newman; FAA; Miramar, FL
Original Publish Date:	November 6, 2019
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=99208

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.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).



Aviation Investigation Final Report

Location:	Hollywood, Florida	Accident Number:	GAA19CA190
Date & Time:	March 21, 2019, 11:00 Local	Registration:	N704VM
Aircraft:	Cessna 150	Aircraft Damage:	Substantial
Defining Event:	Ground collision	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The student pilot reported that, after landing, she and the flight instructor requested to taxi back to the runway for traffic pattern practice. They were instructed to taxi to the runway at a taxiway intersection. They complied and lined up behind another aircraft holding short of the runway. She added that, while stopped and waiting for a takeoff clearance, she felt the airplane shake. She turned around and saw that another airplane had struck their airplane's vertical stabilizer and rudder.

The solo student pilot in the other airplane reported that, after landing, during taxi from the runway to parking, he saw an airplane holding short of the runway at a taxiway intersection. He thought there was enough clearance to taxi around the airplane, but his airplane's left wing struck the stopped airplane.

The stopped airplane sustained substantial damage to the vertical stabilizer and rudder.

The student pilot of the stopped airplane and the flight school manager for the taxiing airplane reported that there were no preaccident mechanical failures or malfunctions with either of the airplanes 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 other pilot's failure to maintain adequate clearance from the stopped airplane while attempting to taxi around it.

Findings

Personnel issues	Monitoring other aircraft - Pilot of other aircraft
Environmental issues	Aircraft - Effect on operation

Factual Information

History of Flight

Standing-engine(s) operating	Ground collision
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Student pilot Information

Certificate:	Student	Age:	26,Female
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
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:	July 12, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 63 hours (Total, all aircraft), 61.5 hours (Total, this make and model), 31.1 hours (Pilot In Command, all aircraft), 63 hours (Last 90 days, all aircraft), 18.3 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Flight instructor Information

Certificate:	Commercial; Flight instructor	Age:	70,Male
Airplane Rating(s):	Single-engine land; 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):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	March 22, 2019
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	July 1, 2017
Flight Time:	(Estimated) 3600 hours (Total, all aircraft), 400 hours (Total, this make and model), 3100 hours (Pilot In Command, all aircraft), 60 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N704VM
Model/Series:	150 M	Aircraft Category:	Airplane
Year of Manufacture:	1976	Amateur Built:	
Airworthiness Certificate:	Utility	Serial Number:	15078909
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	September 7, 2018 Annual	Certified Max Gross Wt.:	1600 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	6911.4 Hrs as of last inspection	Engine Manufacturer:	Continental
ELT:	C91 installed, not activated	Engine Model/Series:	O-200-A
Registered Owner:		Rated Power:	100 Horsepower
Operator:	On file	Operating Certificate(s) Held:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KHWO, 9 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	14:53 Local	Direction from Accident Site:	280°
Lowest Cloud Condition:	Few / 6000 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	350°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.02 inches Hg	Temperature/Dew Point:	22°C / 17°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Hollywood, FL (HWO)	Type of Flight Plan Filed:	None
Destination:	Hollywood, FL (HWO)	Type of Clearance:	VFR
Departure Time:	10:00 Local	Type of Airspace:	Class D

Airport Information

Airport:	NORTH PERRY HWO	Runway Surface Type:	Asphalt
Airport Elevation:	8 ft msl	Runway Surface Condition:	Dry
Runway Used:		IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

Wreckage and Impact Information

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:	25.998888,-80.24028(est)

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