

Aviation Investigation Final Report

Location: Carrollton, Ohio Accident Number: CEN21LA205

Date & Time: April 24, 2021, 15:30 Local Registration: N310VD

Aircraft: Cessna 310N Aircraft Damage: Substantial

Defining Event: Landing gear not configured **Injuries:** 3 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The airline transport pilot reported that, while on downwind in the traffic pattern, he lowered the landing gear handle and verbally announced "gear down." He looked at the cockpit indications to verify the landing gear was down and locked; however, he then shifted his attention outside of the cockpit to visually scan for three aircraft approaching and entering the traffic pattern. He reported that he did not confirm the landing gear was down and locked, as he was distracted with scanning for the other traffic. During landing, the bottom of the fuselage sustained substantial damage. A postaccident functional test of the landing gear revealed no mechanical anomalies with the landing gear system. The pilot reported there were no preimpact mechanical malfunctions or failures with the airframe and engines 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 confirm the landing gear was down before landing due to distraction during the Before Landing checks, which resulted in a gear-up landing.

Findings

Personnel issues Lack of action - Pilot

Personnel issues Use of equip/system - Pilot

Personnel issues Monitoring equip/instruments - Pilot

Aircraft Main landing gear - Not used/operated

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Factual Information

History of Flight

Landing Miscellaneous/other

Landing gear not configured (Defining event)

Landing-flare/touchdown Abnormal runway contact

Pilot Information

Certificate:	Airline transport; Commercial; Flight instructor	Age:	62,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	March 31, 2021
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	December 8, 2020
Flight Time:	14500 hours (Total, all aircraft), 150 hours (Total, this make and model), 12500 hours (Pilot In Command, all aircraft), 120 hours (Last 90 days, all aircraft), 40 hours (Last 30 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N310VD
Model/Series:	310N	Aircraft Category:	Airplane
Year of Manufacture:	1968	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	310N-0123
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	April 23, 2020 100 hour	Certified Max Gross Wt.:	5200 lbs
Time Since Last Inspection:		Engines:	2 Reciprocating
Airframe Total Time:	3515 Hrs at time of accident	Engine Manufacturer:	CONT MOTOR
ELT:	C91A installed, not activated	Engine Model/Series:	10-470 SERIES
Registered Owner:	On file	Rated Power:	260 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None
Operator Does Business As:	On file	Operator Designator Code:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KPHD,895 ft msl	Distance from Accident Site:	17 Nautical Miles
Observation Time:	14:53 Local	Direction from Accident Site:	251°
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:	Broken / 7500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	140°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.9 inches Hg	Temperature/Dew Point:	15°C / 1.7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	New Castle, PA (UCP)	Type of Flight Plan Filed:	None
Destination:	Carrollton, OH	Type of Clearance:	None
Departure Time:	15:00 Local	Type of Airspace:	Class G

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Airport Information

Airport:	CARROLL COUNTY-TOLSON TSO	Runway Surface Type:	Asphalt
Airport Elevation:	1163 ft msl	Runway Surface Condition:	Dry
Runway Used:	07/25	IFR Approach:	None
Runway Length/Width:	4300 ft / 75 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 None	Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	40.561576,-81.078333

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Administrative Information

Investigator In Charge (IIC):	Hodges, Michael
Additional Participating Persons:	David Osborne; FAA Cleveland FSDO; North Olmsted, OH
Original Publish Date:	July 16, 2021
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=103001

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

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.

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