



Aviation Investigation Final Report

Location: MEMPHIS, Tennessee Accident Number: ATL88LA209

Date & Time: July 3, 1988, 14:00 Local Registration: N1576D

Aircraft: CESSNA 195A Aircraft Damage: Substantial

Defining Event: 4 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

THE PLT REPORTED THAT THE LEFT WHEEL SEPARATED FROM THE AIRPLANE DURING LDG ROLLOUT ON RWY 27, ALLOWING THE LEFT GEAR TO DRAG ON THE RWY. THE AIRPLANE THEN BOUNCED, VEERED TO THE RIGHT, AND SKIDDED TO A STOP. THE LEFT LDG GEAR COLLAPSED AS THE ACFT STOPPED. THE PLT SAID THAT THE LDG WAS NOT HARD AND THAT THE WINDS WERE LIGHT & VARIABLE. EXAMINATION OF THE LEFT LDG GEAR REVEALED THAT THE AXLE SPINDLE HAD FRACTURED AND SEPARATED. METALLURGICAL EXAMINATION REVEALED OVERSTRESS FRACTURES AND EVIDENCE OF EXCESSIVE SIDELOADS. THE AIRPLANE ALSO SUSTAINED DAMAGE TO THE LEFT WING TIP, AILERON, THE LEFT HORIZ STAB AND ELEVATOR. THE ARPT WINDS WERE REPORTED FROM 360 DEG AT 6 KTS, A FEW MINUTES AFTER THE ACCIDENT.

Probable Cause and Findings

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

Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

Findings

1. (F) WEATHER CONDITION - CROSSWIND

2. (C) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND 3. (C) GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND

Occurrence #2: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation: LANDING - ROLL

Findings

- 4. LANDING GEAR, AXLE FRACTURED
- 5. LANDING GEAR OVERLOAD

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Factual Information

Pilot Information

Certificate:	Private	Age:	31,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	1300 hours (Total, all aircraft), 300 hours (Total, this make and model), 1200 hours (Pilot In Command, all aircraft), 100 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 7 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N1576D
Model/Series:	195A 195A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal; Utility	Serial Number:	7798
Landing Gear Type:	Tailwheel	Seats:	5
Date/Type of Last Inspection:	June 6, 1988 Annual	Certified Max Gross Wt.:	3350 lbs
Time Since Last Inspection:	30 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2200 Hrs	Engine Manufacturer:	JACOBS
ELT:	Installed, not activated	Engine Model/Series:	R-755-B2
Registered Owner:	CONTINENZA, STEPHEN A.	Rated Power:	275 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	MEM ,332 ft msl	Distance from Accident Site:	
Observation Time:	14:04 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 3000 ft AGL	Visibility	6 miles
Lowest Ceiling:	Overcast / 25000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	360°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	29°C / 21°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ition	
Departure Point:	NASHVILLE , TN (BNA)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	12:30 Local	Type of Airspace:	Class D

Airport Information

Airport:	MEMPHIS INTERNATIONAL MEM	Runway Surface Type:	Asphalt
Airport Elevation:	332 ft msl	Runway Surface Condition:	Dry
Runway Used:	27	IFR Approach:	None
Runway Length/Width:	8936 ft / 150 ft	VFR Approach/Landing:	Straight-in

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	3 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	4 None	Latitude, Longitude:	35.169738,-89.860702(est)

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Administrative Information

Investigator In Charge (IIC): Strickland, Scott

Additional Participating Persons: CONRAD B HOUSE; MEMPHIS , TN

Original Publish Date: September 11, 1989

Last Revision Date: Investigation Class: Class

Note: Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=7785

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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