



Aviation Investigation Final Report

Location: FLAGSTAFF, Arizona Accident Number: LAX00LA253

Date & Time: February 7, 2000, 12:00 Local Registration: N867MF

Aircraft: Cessna 310L Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The green nose gear light did not illuminate after the pilot lowered the gear handle. A visual check by the tower verified that the nose gear was not extended. The pilot tried cycling the gear several times but still did not get a green nose gear light. The tower again reported that the nose gear was not extended. He then raised the gear handle and told the tower that he intended to land with the gear retracted. The runway was foamed and the pilot landed gear-up without further incident. A postaccident inspection revealed a fracture across the eyelet of the nose gear retraction rod.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the fracture across the eyelet of the nose gear retraction rod, which prevented the extension of the nose gear.

Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation: APPROACH - VFR PATTERN - BASE TURN

Findings

1. LANDING GEAR, GEAR LEVER - EXTENDED

2. (C) LANDING GEAR, NOSE GEAR ASSEMBLY - FRACTURED

3. LANDING GEAR, GEAR INDICATING SYSTEM - NOT ACTIVATED

Occurrence #2: MISCELLANEOUS/OTHER

Phase of Operation: LANDING

Findings
4. GEAR RETRACTION - INTENTIONAL - PILOT IN COMMAND

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Factual Information

On February 7, 2000, at 1200 hours mountain standard time, a Cessna 310L, N867MF, experienced a partial gear up landing at Flagstaff Pulliam airport, Flagstaff, Arizona. The aircraft sustained substantial damage; however, the certificated private pilot, the sole occupant, was not injured. The aircraft was being operated as a personal flight by the pilot/owner under 14 CFR Part 91 when the accident occurred. The flight originated from Centennial Airport, Denver, Colorado, at 0820 on the morning of the accident. Visual meteorological conditions prevailed at the time, and no flight plan was filed.

The pilot reported that, after he had lowered the gear handle, the green nose gear light did not illuminate. He radioed the tower operator and asked for a low approach so that the operator could make a visual check of the gear. After the approach, he was told that the nose gear was not visible. He requested permission to continue in the pattern so that he could try cycling the gear. After three attempts; however, he was still had not gotten a green light. Following the third attempt he requested another low approach, but was again told that the nose gear was still not visible. He then raised the gear handle and told the tower operator that he intended to make a gear up landing. The runway was foamed and the pilot landed gear-up without further incident.

A postaccident inspection by Federal Aviation Administration airworthiness inspectors revealed a fracture across the eyelet of the nose gear retraction rod.

Pilot Information

Certificate:	Private	Age:	53,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	March 23, 1998
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	2325 hours (Total, all aircraft), 702 hours (Total, this make and model), 2325 hours (Pilot In Command, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N867MF
Model/Series:	310L 310L	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	0123
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	June 10, 1999 Annual	Certified Max Gross Wt.:	5200 lbs
Time Since Last Inspection:	10 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	5274 Hrs	Engine Manufacturer:	Continental
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	IO-470-V
Registered Owner:	ERNEST L. BROWN	Rated Power:	260 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	FLG ,7011 ft msl	Distance from Accident Site:	
Observation Time:	11:56 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	52°C / 12°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	DENVER , CO (APA)	Type of Flight Plan Filed:	None
Destination:	(FLG)	Type of Clearance:	VFR
Departure Time:	08:30 Local	Type of Airspace:	Class D

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Airport Information

Airport:	FLAGSTAFF PULLIAM FLG	Runway Surface Type:	Asphalt
Airport Elevation:	7011 ft msl	Runway Surface Condition:	Dry
Runway Used:	3	IFR Approach:	None
Runway Length/Width:	6999 ft / 150 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	35.290527,-111.319305(est)

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Administrative Information

Investigator In Charge (IIC):	Crispin, Robert	
Additional Participating Persons:	MARIO VILLARRUBIA; SCOTTSDALE , AZ	
Original Publish Date:	January 2, 2002	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:	The NTSB traveled to the scene of this accident.	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=49627	

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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