

Aviation Investigation Final Report

Location:	Broomfield, Colorado	Accident Number:	DEN04CA054
Date & Time:	March 21, 2004, 12:00 Local	Registration:	N3465G
Aircraft:	Cessna T310R	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

According to the pilot, he had been experiencing electrical problems for the majority of his flight. The pilot reported that he entered a downwind for runway 29R, lowered his landing gear and set 15 degrees flaps. The pilot noticed that the flap indicator was not down so he raised the flaps lever to avoid problems later. The pilot did not visually verify that his gear was down. During the landing flare, both propellers came in contact with the ground and the airplane slid along the runway for several hundred feet, substantially damaging a bulkhead.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the pilot's improper in-flight planning/decision and his failure to verify the landing gear position. Factors contributing to the accident were the pilot's diverted attention due to the electrical failure.

Findings

Occurrence #1: WHEELS UP LANDING Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

- 1. (C) IN-FLIGHT PLANNING/DECISION IMPROPER PILOT IN COMMAND
- 2. (C) GEAR EXTENSION NOT VERIFIED PILOT IN COMMAND
- 3. (F) DIVERTED ATTENTION PILOT IN COMMAND
- 4. (F) ELECTRICAL SYSTEM FAILURE
- 5. WHEELS UP LANDING INADVERTENT PILOT IN COMMAND

Factual Information

On March 21, 2004, at approximately 1200 mountain standard time, a Cessna T310R, N3465G, was substantially damaged during a gear-up landing at Jefferson County Airport (BLC), Broomfield, Colorado. The private pilot, the sole occupant on board, was not injured. Visual meteorological conditions prevailed. A visual flight rules flight plan had been filed for the flight being conducted under the provisions of Title 14 CFR Part 91. The cross-country flight had departed Granby, Colorado, at approximately 1100.

According to the pilot, he had been experiencing electrical problems for the majority of his flight. Upon arriving at BJC, he was unable to communicate with the tower and entered a traffic pattern for runway 29R and began to look for light gun signals. He stated that he had extended the flaps to 15 degrees and verified via a checklist that the gear was down. When he turned final, he noticed an airplane on the runway and initiated a go-around.

The pilot said that he entered a downwind for runway 29R for a second time, "lowered his landing gear and set 15 [degrees] flaps." The pilot "noticed that the flap indicator was not down," so he raised the flaps lever to avoid problems later. The pilot did not visually verify that his gear was down. During the landing flare, both propellers came in contact with the runway and the airplane slid along the runway for several hundred feet, substantially damaging a bulkhead.

Certificate:	Private	Age:	50,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medical–w/ waivers/lim	Last FAA Medical Exam:	August 5, 2002
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	March 18, 2004
Flight Time:	310 hours (Total, all aircraft), 37 hours (Total, this make and model), 199 hours (Pilot In Command, all aircraft), 82 hours (Last 90 days, all aircraft), 34 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Pilot Information

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N3465G
Model/Series:	T310R	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	310R0844
Landing Gear Type:	Retractable - Tricycle	Seats:	5
Date/Type of Last Inspection:	February 12, 2004 Annual	Certified Max Gross Wt.:	5680 lbs
Time Since Last Inspection:	29 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	3014 Hrs at time of accident	Engine Manufacturer:	Teledyne Continental
ELT:	Installed, not activated	Engine Model/Series:	TSIO-520-B-C
Registered Owner:	Conn-Behr Aircraft LLK	Rated Power:	300 Horsepower
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	BJC,5670 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	11:45 Local	Direction from Accident Site:	10°
Lowest Cloud Condition:	Few / 6000 ft AGL	Visibility	50 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.32 inches Hg	Temperature/Dew Point:	11°C / -5°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Grandby, CO (GNB)	Type of Flight Plan Filed:	VFR
Destination:	Broomfield, CO (BJC)	Type of Clearance:	None
Departure Time:	11:00 Local	Type of Airspace:	Class D

Airport Information

Airport:	JEFFCO BJC	Runway Surface Type:	Asphalt
Airport Elevation:	5670 ft msl	Runway Surface Condition:	Dry
Runway Used:	29R	IFR Approach:	None
Runway Length/Width:	9000 ft / 100 ft	VFR Approach/Landing:	Precautionary landing

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:	39.908332,-105.116668

Administrative Information

Investigator In Charge (IIC):	Bowling, David
Additional Participating Persons:	John Botterill; FAA FSDO; Denver, CO
Original Publish Date:	June 30, 2004
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=58980

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