



Aviation Investigation Final Report

Location: THREE RIVERS, Michigan Accident Number: CHI85LA098

Date & Time: January 27, 1985, 16:00 Local Registration: N5603C

Aircraft: CESSNA 140A Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

THE SKI EQUIPPED AIRCRAFT WAS TAXIING ON THE FROZEN SURFACE OF THE LAKE WHEN THE TWO BOTTOM BOLTS THAT ATTACHED THE RIGHT SKI TO THE GEAR LEG FAILED THE OVERLOAD FAILED THE TWO TOP BOLTS AND THE SKI FAILED OUT AND UP AT A FORTY FIVE DEGREE ANGLE THIS PERMITTED THE GEAR LEG TO DIG INTO THE ICE AND NOSE THE ACFT OVER INVERTED.

Probable Cause and Findings

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

Findings

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

Phase of Operation: TAXI - FROM LANDING

Findings

1. (C) LANDING GEAR, SKI ASSEMBLY - DISCONNECTED

Factual Information

Pilot Information

Certificate:	Private	Age:	45,Male
Airplane Rating(s):	Single-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 Medicalno waivers/lim.	Last FAA Medical Exam:	August 30, 1984
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	1030 hours (Total, all aircraft), 750 hours (Total, this make and model), 970 hours (Pilot In Command, all aircraft), 33 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N5603C
Model/Series:	140A 140A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	15536
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	September 5, 1984 Annual	Certified Max Gross Wt.:	1500 lbs
Time Since Last Inspection:	24 Hrs	Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	CONTINENTAL
ELT:	Not installed	Engine Model/Series:	C90 SERIES
Registered Owner:	HARRIS BOULETTE	Rated Power:	95 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:	SBN ,790 ft msl	Distance from Accident Site:	36 Nautical Miles
Observation Time:	16:00 Local	Direction from Accident Site:	45°
Lowest Cloud Condition:	Unknown	Visibility	8 miles
Lowest Ceiling:	Broken / 3600 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	14 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	220°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	-6°C / -10°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	(HAI)	Type of Flight Plan Filed:	None
Destination:	COREY LAKE , MI	Type of Clearance:	None
Departure Time:	15:50 Local	Type of Airspace:	Class G

Airport Information

Airport:		Runway Surface Type:	Ice
Airport Elevation:	0 ft msl	Runway Surface Condition:	Snow
Runway Used:	0	IFR Approach:	
Runway Length/Width:	0 ft / 0 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:	41.939411,-85.630844(est)

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Administrative Information

Investigator In Charge (IIC): Mc avoy, Edward

Additional Participating Persons:

Original Publish Date:

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=12994

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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