



# Aviation Investigation Final Report

<b>Location:</b>	JANESVILLE, Wisconsin	<b>Accident Number:</b>	CHI98LA213
<b>Date &amp; Time:</b>	June 19, 1998, 19:08 Local	<b>Registration:</b>	N5030Q
<b>Aircraft:</b>	Cessna 310N	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The airplane landed with the nose landing gear not extended. Examination of the airplane revealed that the linkage for the right nose landing gear door was not secured. When the landing gear was retracted on the previous departure, the nose landing gear became trapped and inoperable. The accident flight was the first flight after the airplane had been painted. The nose landing gear doors were disengaged during that maintenance.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: other maintenance personnel not installing nose landing gear door linkage. Factors were the unsecured landing gear door, the nose landing gear becoming jammed and the gear extension not possible by the pilot.

## Findings

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

Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (F) DOOR, LANDING GEAR - NOT SECURED
2. (C) MAINTENANCE, INSTALLATION - NOT PERFORMED - OTHER MAINTENANCE PERSONNEL

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Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

3. (F) LANDING GEAR, NOSE GEAR - JAMMED
4. (F) GEAR EXTENSION - NOT POSSIBLE - PILOT IN COMMAND

## Factual Information

On June 19, 1998, at 1908 central daylight time, a Cessna 310N, N5030Q, received substantial damage when landing on runway 36 (5,000' x 75' dry/asphalt), near Janesville, Wisconsin, with the nose landing gear not extended. The pilot said that the airplane had just been painted and the nose landing gear door was not properly attached after painting. On retraction of the nose landing gear the nosewheel became trapped by the door and could not be extended again. The pilot reported no injuries. The 14 CFR Part 91 flight was operating in visual meteorological conditions. No flight plan was on file. The flight departed Watertown, Wisconsin, at 1810.

Examination of the airplane after the accident revealed that the linkage for the right nose landing gear door was not secured. When the landing gear was retracted on the previous departure, the nose landing gear became trapped and inoperable. Repeated attempts to extend the nose landing gear were unsuccessful and the airplane landed with the nose landing gear not extended. The accident flight was the first flight after the airplane had been painted. The nose landing gear doors were disengaged during that maintenance.

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	57, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	November 17, 1997
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	1110 hours (Total, all aircraft), 70 hours (Total, this make and model), 925 hours (Pilot In Command, all aircraft), 15 hours (Last 90 days, all aircraft), 10 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N5030Q
<b>Model/Series:</b>	310N 310N	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	310N-0130
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	Annual	<b>Certified Max Gross Wt.:</b>	5200 lbs
<b>Time Since Last Inspection:</b>	3 Hrs	<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	Continental
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	IO-470-V
<b>Registered Owner:</b>	VIKING TRANSPORT LTD	<b>Rated Power:</b>	260 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Scattered / 5000 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	5 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	285°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29 inches Hg	<b>Temperature/Dew Point:</b>	24°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	WATERTOWN , WI (RYV )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	(JVL )	<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	18:10 Local	<b>Type of Airspace:</b>	Class D

## Airport Information

<b>Airport:</b>	ROCK COUNTY JVL	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	808 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	36	<b>IFR Approach:</b>	
<b>Runway Length/Width:</b>	5000 ft / 75 ft	<b>VFR Approach/Landing:</b>	Full stop

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	42.679111,-89.010948(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Wilson, Stephen
<b>Additional Participating Persons:</b>	DUANE M HAHN; MILWAUKEE , WI
<b>Original Publish Date:</b>	February 16, 2001
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=10927">https://data.nts.gov/Docket?ProjectID=10927</a>

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