



# National Transportation Safety Board Aviation Accident Data Summary

<b>Location:</b>	Portland, ME	<b>Accident Number:</b>	IAD04LA029
<b>Date &amp; Time:</b>	07/02/2004, 1936 EDT	<b>Registration:</b>	N421KS
<b>Aircraft:</b>	Cessna 421B	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

## Analysis

Line personnel reported to the pilot that while the airplane had been parked on the ramp, heavy wind and rain "hydroplaned" the airplane across the ramp about 25 feet. After takeoff, the pilot retracted the landing gear and noticed an unfamiliar "clunking" noise during the retraction cycle. During the approach to the destination airport, he extended the landing gear and noted all three of the landing gear down and locked indicator lights were green. Sometime during the rollout he heard the "clunk" noise again, and the right wing began to settle lower than normal. The airplane then began to veer to the right and came to rest in the grass on the right side of runway. Examination of the right main landing gear revealed that two components of the down-lock mechanism had broken. The parts were submitted to the Safety Board Materials Laboratory. Metallurgical examination of the mating fractures revealed features typical of overstress separation. The fractures contained no evidence of fatigue.

## Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: Failure of the right main landing gear down-lock mechanism resulting in the collapse of the right main landing gear.

## Findings

Occurrence #1: GEAR COLLAPSED  
Phase of Operation: LANDING - ROLL

### Findings

1. (C) LANDING GEAR, GEAR LOCKING MECHANISM - FAILURE

## Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	57
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Instrument Rating(s):</b>	Airplane
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	None
<b>Flight Time:</b>	4312 hours (Total, all aircraft), 294 hours (Total, this make and model), 46 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N421KS
<b>Model/Series:</b>	421B	<b>Engines:</b>	2 Reciprocating
<b>Operator:</b>	On file	<b>Engine Manufacturer:</b>	Teledyne Continental
<b>Operating Certificate(s) Held:</b>	None	<b>Engine Model/Series:</b>	GTSIO-520-H
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	PWM, 74 ft msl	<b>Weather Information Source:</b>	Weather Observation Facility
<b>Lowest Ceiling:</b>	None	<b>Wind Speed/Gusts, Direction:</b>	3 knots / , 50°
<b>Temperature:</b>	20° C	<b>Visibility</b>	6 Miles
<b>Precipitation and Obscuration:</b>			
<b>Departure Point:</b>	Groton, CT (GON)	<b>Destination:</b>	Portland, ME (PWM)

## Airport Information

<b>Airport:</b>	Portland International Jetport (PWM)	<b>Runway Surface Type:</b>	Asphalt
<b>Runway Used:</b>	29	<b>Runway Surface Condition:</b>	Unknown
<b>Runway Length/Width:</b>	6800 ft / 150 ft		

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Latitude, Longitude:</b>	43.646111, -70.308611		

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Paul Cox	<b>Adopted Date:</b>	12/03/2004
<b>Investigation Docket:</b>	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at <a href="mailto:pubinq@ntsb.gov">pubinq@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .		

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