

Aviation Investigation Final Report

Location:	KIMBALL, Nebrask	a	Accident Number:	MKC87LA056
Date & Time:	March 5, 1987, 19:	25 Local	Registration:	N5553P
Aircraft:	PIPER	PA-24-250	Aircraft Damage:	Substantial
Defining Event:			Injuries:	2 None
Flight Conducted Under:	Part 91: General av	viation - Personal		

Analysis

THE PIC RPTD LANDING RWY 10 WITH A WND FM 080 AT 7 KTS. THE ACFT BEGAN VEERING LEFT AND RAN THROUGH A SNOW BANK WHICH BORDERED THE RWY. THE LEFT MAIN LANDING GEAR COLLAPSED AND THE ACFT SPUN AROUND 180 DEG STOPPING TAIL FIRST. INSP OF THE LANDING GEAR NOTED AN OVERLOAD OF THE GEAR LOCKING MECHANISM.

Probable Cause and Findings

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

Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND 2. (C) GROUND LOOP/SWERVE - UNCONTROLLED - PILOT IN COMMAND

Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER Phase of Operation: LANDING - ROLL

Findings 3. TERRAIN CONDITION - SNOWBANK -----

Occurrence #3: MAIN GEAR COLLAPSED Phase of Operation: LANDING - ROLL

Findings

- 4. LANDING GEAR, GEAR LOCKING MECHANISM OVERLOAD 5. LANDING GEAR, GEAR LOCKING MECHANISM FAILURE, TOTAL

Factual Information

Pilot Information

Certificate:	Private	Age:	61,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 Medicalw/ waivers/lim	Last FAA Medical Exam:	February 28, 1986
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	1000 hours (Total, all aircraft), 1 hours (Total, this make and model), 999 hours (Pilot In Command, all aircraft), 20 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N5553P
Model/Series:	PA-24-250 PA-24-250	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	24-617
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	October 11, 1986 Annual	Certified Max Gross Wt.:	2800 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3944 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, activated	Engine Model/Series:	0-540-A1A
Registered Owner:	DONALD J. GERNER	Rated Power:	250 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:	BFF ,3965 ft msl	Distance from Accident Site:	40 Nautical Miles
Observation Time:	19:52 Local	Direction from Accident Site:	5°
Lowest Cloud Condition:	Scattered	Visibility	25 miles
Lowest Ceiling:	Broken	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	80°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	4°C / -1°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	KIMALL , NE	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	19:00 Local	Type of Airspace:	Class G

Airport Information

Airport:	KIMBALL MUNI IBM	Runway Surface Type:	Concrete;Snow
Airport Elevation:	4911 ft msl	Runway Surface Condition:	Dry
Runway Used:	10	IFR Approach:	None
Runway Length/Width:	6200 ft / 75 ft	VFR Approach/Landing:	Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	41.230094,-103.650337(est)

Administrative Information

Investigator In Charge (IIC):	Thorpe, Clint	
Additional Participating Persons:	ILENE VAN LENT; LINCOLN , NE	
Original Publish Date:	May 2, 1988	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=34346	

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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.