



National Transportation Safety Board Aviation Accident Data Summary

Location:	Reno, NV	Accident Number:	WPR14LA040
Date & Time:	11/01/2013, 0940 PDT	Registration:	N20739
Aircraft:	MIKOYAN GUREVICH MIG 21 UM	Injuries:	1 Serious
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot reported that, following a normal landing, he applied the brakes and that he then released the brakes as the airplane decelerated to allow for brake cooling. As the airplane passed the 4,000-foot-remaining sign, the pilot reapplied the brakes but noted no braking action. The airplane subsequently overran the departure end of the runway. Postaccident examination of the airplane revealed that the spring that allows the front brakes to engage a brake pawl was fractured, which resulted in the deactivation of the front brake pedals and the subsequent runway overrun.

Flight Events

Landing-landing roll - Runway excursion

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The loss of brake control due to the fracture of the front brake pawl engagement spring, which resulted in a runway overrun.

Findings

Aircraft-Aircraft systems-Landing gear system-Master cylinder/brake valve-Failure - C

Pilot Information

Certificate:	Commercial	Age:	71
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	2800 hours (Total, all aircraft), 400 hours (Total, this make and model), 2800 hours (Pilot In Command, all aircraft), 28 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	MIKOYAN GUREVICH	Registration:	N20739
Model/Series:	MIG 21 UM NO SERIES	Engines:	1 Turbo Jet
Operator:	Joesph Gano	Engine Manufacturer:	Tomanski
Air Carrier Operating Certificate:	None	Engine Model/Series:	R22F25300
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KRNO, 4400 ft msl	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	None
Condition of Light:	Day	Wind Speed/Gusts, Direction:	Calm
Temperature:	5°C / -1°C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Reno, NV (RTS)	Destination:	Reno, NV (RTS)

Airport Information

Airport:	RENO/STEAD (RTS)	Runway Surface Type:	Asphalt
Runway Used:	14	Runway Surface Condition:	Dry
Runway Length/Width:	9000 ft / 150 ft		

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None

Administrative Information

Investigator In Charge (IIC):	Joshua Cawthra	Adopted Date:	09/29/2014
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=88374		

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