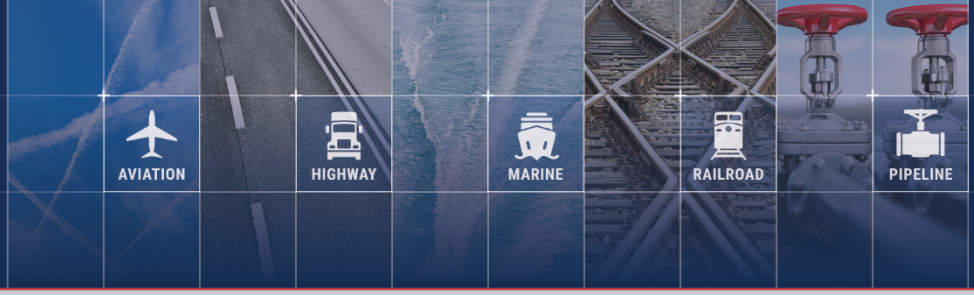

Aviation Investigation Factual Report

Location:	Loveland, Colorado	**Accident Number:**	CEN10LA242
Date & Time:	May 9, 2010, 10:00 Local	**Registration:**	N3255U
Aircraft:	JORRITSMA JERROLD S BERKUT	**Aircraft Damage:**	Substantial
Defining Event:	Loss of engine power (total)	**Injuries:**	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Factual Information

On May 9, 2010, approximately 1000 mountain daylight time, a Jorritsma Berkut, N3255U, was substantially damaged during a forced landing following a total loss of engine power during initial takeoff . The private pilot, the sole occupant, was not injured. The airplane was owned and operated by the pilot. Visual meteorological conditions prevailed and no flight plan was filed for the Title 14 Code of Federal Regulations Part 91 personal flight. The local flight was departing the Fort Collins-Loveland Municipal Airport (KFNL), Loveland, Colorado at the time of the accident.

According to a statement provided by the pilot, shortly after departing KFNL and climbing through 7,500 feet mean seal level, the pilot made a power reduction. A loud bang was heard and vibrations were felt by the pilot. The pilot scanned the engine instruments and determined that the engine was "rolling back" and losing power. The pilot attempted to return to the airport, but impacted terrain short of the runway. The airplane's landing gear collapsed during the forced landing, and substantial damage was sustained to the fuselage and both wings.

The engine was equipped with an experimental engine. The Jorritsma T58-8F was a turbojet engine based on General Electric T58-GE-8F turboshaft design. The engine's compressor section has variable stators which are actuated by the fuel controller. An examination of the engine by the owner/manufacturer revealed that a malfunction of the fuel controller resulted in conditions conducive for compressor stalls.

Pilot Information

Certificate:	Private	**Age:**	54,Male
Airplane Rating(s):	Single-engine land	**Seat Occupied:**	Front
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 With waivers/limitations	**Last FAA Medical Exam:**	June 18, 2009
Occupational Pilot:	UNK	**Last Flight Review or Equivalent:**	
Flight Time:	97 hours (Total, all aircraft), 15 hours (Total, this make and model), 97 hours (Pilot In Command, all aircraft), 4 hours (Last 90 days, all aircraft), 2 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	JORRITSMA JERROLD S	**Registration:**	N3255U
Model/Series:	BERKUT	**Aircraft Category:**	Airplane
Year of Manufacture:		**Amateur Built:**	Yes
Airworthiness Certificate:	Experimental (Special)	**Serial Number:**	54
Landing Gear Type:	Retractable - Tricycle	**Seats:**	2
Date/Type of Last Inspection:	March 20, 2010 Continuous airworthiness	**Certified Max Gross Wt.:**	2200 lbs
Time Since Last Inspection:	10 Hrs	**Engines:**	1 Turbo jet
Airframe Total Time:	40 Hrs at time of accident	**Engine Manufacturer:**	JORRITSMA
ELT:	C91A installed, activated, did not aid in locating accident	**Engine Model/Series:**	T58-8F
Registered Owner:	On file	**Rated Power:**	500 Lbs thrust
Operator:	On file	**Operating Certificate(s) Held:**	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	**Condition of Light:**	Day
Observation Facility, Elevation:	KFNL	**Distance from Accident Site:**	
Observation Time:	09:55 Local	**Direction from Accident Site:**	
Lowest Cloud Condition:	Clear	**Visibility**	10 miles
Lowest Ceiling:		**Visibility (RVR):**	
Wind Speed/Gusts:	/	**Turbulence Type Forecast/Actual:**	/
Wind Direction:		**Turbulence Severity Forecast/Actual:**	/
Altimeter Setting:	29.93 inches Hg	**Temperature/Dew Point:**	9°C / 0°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Loveland, CO (KFNL)	**Type of Flight Plan Filed:**	None
Destination:	Loveland, CO (KFNL)	**Type of Clearance:**	
Departure Time:	10:00 Local	**Type of Airspace:**	

Airport Information

Airport:	Fort Collins-Loveland Muni KFNL	**Runway Surface Type:**	
Airport Elevation:	5016 ft msl	**Runway Surface Condition:**	
Runway Used:	15	**IFR Approach:**	None
Runway Length/Width:	8500 ft / 100 ft	**VFR Approach/Landing:**	Forced landing

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:**	40.451946,-105.01139(est)

Administrative Information

Investigator In Charge (IIC):	Aguilera, Jason
Additional Participating Persons:	Rick Hosker; Federal Aviation Administration; Denver, CO
Report Date:	June 8, 2010
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=75967