



Aviation Investigation Final Report

Location:	Longmont, Colorado	Accident Number:	CEN15CA197
Date & Time:	April 10, 2015, 14:15 Local	Registration:	N824C
Aircraft:	RENNICKE MIDGET MUSTA MM1	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The airplane impacted the runway surface during takeoff after it prematurely lifted off and cartwheeled to a stop facing in the opposite direction. The pilot stated that he knew the airplane was not at flying speed when it lifted off, so he moved the control stick forward to return the airplane to the runway surface, but the airplane bounced and veered left. He added additional engine power in attempt to keep the airplane flying. The left wing then dropped and contacted the runway, cartwheeling the airplane. The pilot reported that there was no mechanical malfunction/failure of the airplane at the time of the accident.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure attain/maintain pitch control prior to attaining a proper takeoff speed during takeoff roll, which resulted in a premature liftoff of the airplane and loss of control.

Findings

Aircraft	Pitch control - Not attained/maintained
Aircraft	Airspeed - Not attained/maintained

Factual Information

History of Flight

Takeoff	Loss of control on ground (Defining event)
Takeoff	Attempted remediation/recovery
Takeoff	Abnormal runway contact
Takeoff	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	57
Airplane Rating(s):	Single-engine land	Seat Occupied:	Single
Other Aircraft Rating(s):	None	Restraint Used:	3-point
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:	July 1, 2013
Occupational Pilot:	No	Last Flight Review or Equivalent:	January 18, 2014
Flight Time:	240 hours (Total, all aircraft), 6 hours (Total, this make and model), 183 hours (Pilot In Command, all aircraft), 9 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	RENNICKE MIDGET MUSTA	Registration:	N824C
Model/Series:	MM1	Aircraft Category:	Airplane
Year of Manufacture:	2013	Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	MM1CR1
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	December 20, 2014 Condition	Certified Max Gross Wt.:	1000 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	15 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	Not installed	Engine Model/Series:	O290
Registered Owner:	Pilot	Rated Power:	135
Operator:	Pilot	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	LMO,5055 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	14:15 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	70°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:		Temperature/Dew Point:	17°C / -2°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Longmont, CO (LMO)	Type of Flight Plan Filed:	None
Destination:	Longmont, CO (LMO)	Type of Clearance:	None
Departure Time:	14:15 Local	Type of Airspace:	

Airport Information

Airport:	VANCE BRAND LMO	Runway Surface Type:	
Airport Elevation:	5055 ft msl	Runway Surface Condition:	Dry
Runway Used:	11	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

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:	40.162223,-105.160835(est)

Administrative Information

Investigator In Charge (IIC): Gallo, Mitchell

Additional Participating Persons:

Original Publish Date: May 13, 2015

Last Revision Date:

Investigation Class: [Class](#)

Note: This accident report documents the factual circumstances of this accident as described to the NTSB.

Investigation Docket: <https://data.nts.gov/Docket?ProjectID=91024>

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