



Aviation Investigation Final Report

Location:	South Lake Tahoe, California	Accident Number:	GAA16CA465
Date & Time:	September 5, 2016, 13:30 Local	Registration:	N738GK
Aircraft:	Cessna TR182	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot reported that during landing the airplane floated half way down the runway, so she decided to perform a go-around. During the go-around, the pilot reported that airplane would not climb initially and one wheel touched down on the runway, which "threw the airplane off kilter." Subsequently, the airplane did start to climb, but the flight path was over the grass to the right of the runway, so she forced the airplane down in the grass ahead. During the touchdown, the nose gear collapsed and the airplane nosed over.

During a postaccident interview with the National Transportation Safety Board investigator-in-charge, the pilot reported that during the go-around, she retracted the flaps to 20 degrees, but she forgot to remove the carburetor heat because she normally flies fuel-injected airplanes.

The fuselage, both wings, and vertical stabilizer sustained substantial damage.

The pilot reported no preaccident mechanical malfunctions or failures with the airplane that would have precluded normal operation.

The pilot's operating handbook for the accident airplane states in part:

Balked Landing

1. Power – FULL THROTTLE and 2400 RPM [revolutions per minute].
2. Carburetor Heat – COLD.
3. Wing Flaps – RETRACT to 20 degrees.
4. Climb Speed – 75 KIAS [knots indicated airspeed].
5. Wing Flaps – RETRACT slowly after reach 75 KIAS.
6. Cowl Flaps – OPEN.

About the time of the accident, at the accident airport, an automated weather observing system reported the wind to be variable at 6 knots, a temperature of 66 degrees Fahrenheit(19 Celsius), and a dew point

of 26 degrees Fahrenheit (-3 Celsius). The airport's elevation was 6,268 feet above mean sea level (MSL) and the density altitude was 8,108 feet above MSL.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to maintain directional control during an attempted go-around, which resulted in a runway excursion and a nose over. Contributing to the accident was the pilot's failure to remove the carburetor heat during the attempted go-around in high density altitude conditions.

Findings

Aircraft	Directional control - Not attained/maintained
Personnel issues	Aircraft control - Pilot
Personnel issues	Forgotten action/omission - Pilot
Environmental issues	High density altitude - Effect on equipment
Aircraft	Air intake - Incorrect use/operation
Environmental issues	(general) - Contributed to outcome

Factual Information

History of Flight

Landing-flare/touchdown	Landing area overshoot
Approach-VFR go-around	Loss of lift
Landing-aborted after touchdown	Loss of control on ground (Defining event)
Landing-aborted after touchdown	Runway excursion
Landing-aborted after touchdown	Nose over/nose down
Landing-aborted after touchdown	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	50,Female
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
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 2 Without waivers/limitations	Last FAA Medical Exam:	September 23, 2014
Occupational Pilot:	No	Last Flight Review or Equivalent:	December 23, 2015
Flight Time:	(Estimated) 245 hours (Total, all aircraft), 22 hours (Total, this make and model), 118 hours (Pilot In Command, all aircraft), 31 hours (Last 90 days, all aircraft), 2 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Passenger Information

Certificate:		Age:	Male
Airplane Rating(s):		Seat Occupied:	Right
Other Aircraft Rating(s):		Restraint Used:	3-point
Instrument Rating(s):		Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N738GK
Model/Series:	TR182	Aircraft Category:	Airplane
Year of Manufacture:	1979	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	R18200925
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	July 22, 2016 100 hour	Certified Max Gross Wt.:	3100 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	4486.8 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	Installed	Engine Model/Series:	O-540-J3C5D
Registered Owner:		Rated Power:	235 Horsepower
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KTVL, 6268 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	20:53 Local	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:		Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.01 inches Hg	Temperature/Dew Point:	19°C / -3°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	BISHOP, CA (BIH)	Type of Flight Plan Filed:	None
Destination:	South Lake Tahoe, CA (TVL)	Type of Clearance:	None
Departure Time:	11:35 Local	Type of Airspace:	Class E

Airport Information

Airport:	LAKE TAHOE TVL	Runway Surface Type:	Asphalt
Airport Elevation:	6268 ft msl	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	8541 ft / 100 ft	VFR Approach/Landing:	Go around;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:	38.898612,-119.993888(est)

Administrative Information

Investigator In Charge (IIC):	Gerhardt, Adam
Additional Participating Persons:	Aaron Southerland; FAA; Reno, NV
Original Publish Date:	December 5, 2016
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=93954

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