



Aviation Investigation Final Report

Location: Mansfield, Ohio **Accident Number:** GAA18CA470

Date & Time: August 6, 2018, 11:00 Local Registration: N454WS

Aircraft: WALTER C SMYTHE TANGO XR Aircraft Damage: Substantial

Defining Event: Aerodynamic stall/spin **Injuries:** 1 Minor

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that, during landing, the airplane bounced multiple times, so he added power to go around, but the left wing dropped, and the airplane "veered" left and dropped to the ground. The airplane touched down in the grass to the left of the runway, the nose landing gear collapsed, and the airplane nosed over.

The airplane sustained substantial damage to the fuselage and empennage.

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

Probable Cause and Findings

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

The pilot's exceedance of the airplane's critical angle of attack during a go-around, which resulted in an aerodynamic stall.

Findings

Aircraft Angle of attack - Capability exceeded

Personnel issues Aircraft control - Pilot

Aircraft Landing flare - Not attained/maintained

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Factual Information

History of Flight

Landing	Abnormal runway contact	
Approach-VFR go-around	Aerodynamic stall/spin (Defining event)	
Approach-VFR go-around	Collision with terr/obj (non-CFIT)	
Landing	Landing gear collapse	
Landing	Nose over/nose down	

Pilot Information

Certificate:	Private	Age:	60,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	BasicMed	Last FAA Medical Exam:	September 29, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	July 29, 2017
Flight Time:	(Estimated) 217.3 hours (Total, all aircraft), 5.1 hours (Total, this make and model), 183.1 hours (Pilot In Command, all aircraft), 5.1 hours (Last 90 days, all aircraft), 5.1 hours (Last 30 days, all aircraft), 5.1 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	WALTER C SMYTHE	Registration:	N454WS
Model/Series:	TANGO XR	Aircraft Category:	Airplane
Year of Manufacture:	2015	Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	029
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	June 1, 2018 Condition	Certified Max Gross Wt.:	2200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	77.7 Hrs at time of accident	Engine Manufacturer:	Titan
ELT:	Installed, not activated	Engine Model/Series:	IOX370
Registered Owner:		Rated Power:	205 Horsepower
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:	KMFD,1312 ft msl	Distance from Accident Site:	10 Nautical Miles
Observation Time:	14:52 Local	Direction from Accident Site:	67°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	240°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.14 inches Hg	Temperature/Dew Point:	30°C / 21°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Brunswick, ME (BXM)	Type of Flight Plan Filed:	None
Destination:	Mansfield, OH (GQQ)	Type of Clearance:	VFR
Departure Time:	06:30 Local	Type of Airspace:	Class G

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Airport Information

Airport:	GALION MUNI GQQ	Runway Surface Type:	Asphalt
Airport Elevation:	1224 ft msl	Runway Surface Condition:	Dry
Runway Used:	23	IFR Approach:	None
Runway Length/Width:	3504 ft / 75 ft	VFR Approach/Landing:	Full stop;Go around;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	40.755001,-82.721664(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Alexander McAninch; FAA; Cleveland, OH
Original Publish Date:	March 18, 2019
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=98002

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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