Aviation Investigation Final Report

Location:	San Carlos, California	**Accident Number:**	GAA18CA395
Date & Time:	July 5, 2018, 15:30 Local	**Registration:**	N75SY
Aircraft:	COSTRUZIONI AERONAUTICHE TECNA P2002 SIERRA	**Aircraft Damage:**	Substantial
Defining Event:	Aerodynamic stall/spin	**Injuries:**	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot reported that, while landing in a crosswind, the approach was "too low," and he added power. The airplane then "rolled and veered" left. He added that marks on the terrain indicated that the left wing struck the ground, and tracks showed that the airplane touched down on the pavement before the runway threshold. The airplane then exited the runway, the nose landing gear collapsed, and the airplane came to rest nose down.

The airplane sustained substantial damage to the engine mount, left wing, and fuselage.

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

The automated weather observation system located at the airport reported that, about the time of the accident, the wind was from 330° at 8 knots. The pilot landed the airplane on runway 30.

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 a proper glidepath and crosswind correction during landing, which resulted in an aerodynamic stall.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Descent/approach/glide path - Not attained/maintained
Aircraft	Crosswind correction - Not attained/maintained
Environmental issues	Crosswind - Response/compensation
Environmental issues	Crosswind - Effect on operation

Factual Information

History of Flight

Approach-VFR go-around	Aerodynamic stall/spin (Defining event)
Landing	Landing area undershoot
Landing	Runway excursion
Landing	Landing gear collapse
Landing	Nose over/nose down

Pilot Information

Certificate:	Private	**Age:**	72,Male
Airplane Rating(s):	Single-engine land	**Seat Occupied:**	Left
Other Aircraft Rating(s):	None	**Restraint Used:**	Unknown
Instrument Rating(s):	None	**Second Pilot Present:**	No
Instructor Rating(s):	None	**Toxicology Performed:**	No
Medical Certification:	Sport pilot	**Last FAA Medical Exam:**	
Occupational Pilot:	No	**Last Flight Review or Equivalent:**	July 23, 2016
Flight Time:	(Estimated) 802 hours (Total, all aircraft), 277 hours (Total, this make and model), 802 hours (Pilot In Command, all aircraft), 9 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	COSTRUZIONI AERONAUTICHE TECNA	**Registration:**	N75SY
Model/Series:	P2002 SIERRA	**Aircraft Category:**	Airplane
Year of Manufacture:	2008	**Amateur Built:**	
Airworthiness Certificate:	Special light-sport (Special)	**Serial Number:**	359
Landing Gear Type:	Tricycle	**Seats:**	2
Date/Type of Last Inspection:	February 15, 2018 Annual	**Certified Max Gross Wt.:**	1320 lbs
Time Since Last Inspection:		**Engines:**	1 Reciprocating
Airframe Total Time:	355.1 Hrs at time of accident	**Engine Manufacturer:**	Rotax
ELT:	Installed, not activated	**Engine Model/Series:**	912ULS
Registered Owner:	On file	**Rated Power:**	100 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:	KSQL,5 ft msl	**Distance from Accident Site:**	0 Nautical Miles
Observation Time:	22:47 Local	**Direction from Accident Site:**	7°
Lowest Cloud Condition:	Clear	**Visibility**	10 miles
Lowest Ceiling:	None	**Visibility (RVR):**	
Wind Speed/Gusts:	8 knots /	**Turbulence Type Forecast/Actual:**	None / None
Wind Direction:	330°	**Turbulence Severity Forecast/Actual:**	N/A / N/A
Altimeter Setting:	30.12 inches Hg	**Temperature/Dew Point:**	23°C / 12°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	San Carlos, CA (SQL)	**Type of Flight Plan Filed:**	None
Destination:	San Carlos, CA (SQL)	**Type of Clearance:**	None
Departure Time:	15:00 Local	**Type of Airspace:**	Class D

Airport Information

Airport:	SAN CARLOS SQL	**Runway Surface Type:**	Asphalt
Airport Elevation:	5 ft msl	**Runway Surface Condition:**	Dry
Runway Used:	30	**IFR Approach:**	None
Runway Length/Width:	2600 ft / 75 ft	**VFR Approach/Landing:**	Full stop

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:**	37.515277,-122.250274(est)

Administrative Information

Investigator In Charge (IIC):	Swenson, Eric
Additional Participating Persons:	Stephen Rowell; FAA; San Jose, CA
Original Publish Date:	March 18, 2019
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.ntsb.gov/Docket?ProjectID=97709