



# Aviation Investigation Final Report

<b>Location:</b>	Arecibo, Puerto Rico	<b>Accident Number:</b>	GAA17CA261
<b>Date &amp; Time:</b>	May 5, 2017, 07:20 Local	<b>Registration:</b>	N228KM
<b>Aircraft:</b>	QUICKSILVER MANUFACTURING INC SPORT2S R582	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Controlled flight into terr/obj (CFIT)	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The pilot in the weight-shift-controlled aircraft reported that he was performing a maintenance flight about 40 ft above ground level. He recalled that he remained in the pattern and that he was in a level flight profile when the left wing struck a tree. The aircraft fell to the ground and sustained substantial damage to the left wing strut and trailing edge tubes.

The pilot reported that there were no preaccident mechanical malfunctions or failures with the weight-shift-controlled aircraft 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 failure to see and avoid trees during low-altitude flight.

## Findings

<b>Aircraft</b>	Altitude - Not attained/maintained
<b>Environmental issues</b>	Tree(s) - Effect on equipment
<b>Personnel issues</b>	Monitoring environment - Pilot



## Factual Information

### History of Flight

<b>Enroute</b>	Controlled flight into terr/obj (CFIT) (Defining event)
<b>Uncontrolled descent</b>	Collision with terr/obj (non-CFIT)

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	45, Male
<b>Airplane Rating(s):</b>	Single-engine land; Single-engine sea; Multi-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	3-point
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	September 22, 2015
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	January 2, 2016
<b>Flight Time:</b>	(Estimated) 1315 hours (Total, all aircraft), 40 hours (Total, this make and model), 1315 hours (Pilot In Command, all aircraft), 64 hours (Last 90 days, all aircraft), 58 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	QUICKSILVER MANUFACTURING INC	<b>Registration:</b>	N228KM
<b>Model/Series:</b>	SPORT2S R582 NO SERIES	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	2007	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Experimental light sport (Special)	<b>Serial Number:</b>	0142
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	May 2, 2017 Condition	<b>Certified Max Gross Wt.:</b>	1000 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	361 Hrs as of last inspection	<b>Engine Manufacturer:</b>	Rotax
<b>ELT:</b>	C91 installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	582 UL
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	65 Horsepower
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	TJIG,10 ft msl	<b>Distance from Accident Site:</b>	33 Nautical Miles
<b>Observation Time:</b>	10:46 Local	<b>Direction from Accident Site:</b>	89°
<b>Lowest Cloud Condition:</b>	Few / 2000 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>		<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/ None
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	/ N/A
<b>Altimeter Setting:</b>	29.97 inches Hg	<b>Temperature/Dew Point:</b>	29°C / 24°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Arecibo, PR (ABO )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Arecibo, PR (ABO )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	07:20 Local	<b>Type of Airspace:</b>	Class E

## Airport Information

<b>Airport:</b>	Antonio (Nery) Juarbe Pol Airp ABO	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	20 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	08	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3963 ft / 60 ft	<b>VFR Approach/Landing:</b>	None

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	18.450834,-66.675552(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Hicks, Michael
<b>Additional Participating Persons:</b>	Jose F Zayas-Fernandez; FAA; San Juan , PR
<b>Original Publish Date:</b>	October 31, 2017
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=95116">https://data.nts.gov/Docket?ProjectID=95116</a>

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