



# Aviation Investigation Final Report

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<b>Location:</b>	Adelanto, California	<b>Accident Number:</b>	WPR11CA338
<b>Date &amp; Time:</b>	July 15, 2011, 17:00 Local	<b>Registration:</b>	N84AM
<b>Aircraft:</b>	ROLLADEN SCHNEIDER OHG LS-3-17	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Aerodynamic stall/spin	<b>Injuries:</b>	1 Serious
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

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## Analysis

The pilot reported that he turned from the base leg to final approach at about 400 feet with full flaps and spoilers extended. On final approach about 100 feet above the ground, he decided to change the flap setting from 20 degrees to 10 degrees as there was a crosswind. He said that as he tried to move the flap handle, the handle slipped from his hand and instantly changed the flaps to 10 degrees, which resulted in the glider losing lift and nosed down. He pulled back on the controls, but the glider stalled and collided with the ground resulting in substantial damage. The pilot reported no preimpact mechanical malfunctions or failures with the airframe or the engine 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 incorrect use of the flap control pitch control recovery which resulted in an aerodynamic stall.

## Findings

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<b>Personnel issues</b>	Aircraft control - Pilot
<b>Personnel issues</b>	Incorrect action selection - Pilot
<b>Aircraft</b>	Trailing edge flaps - Unintentional use/operation
<b>Aircraft</b>	Pitch control - Incorrect use/operation

## Factual Information

### History of Flight

<b>Landing</b>	Abrupt maneuver
<b>Landing</b>	Aerodynamic stall/spin (Defining event)
<b>Uncontrolled descent</b>	Collision with terr/obj (non-CFIT)

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	59, Male
<b>Airplane Rating(s):</b>	None	<b>Seat Occupied:</b>	Single
<b>Other Aircraft Rating(s):</b>	Glider	<b>Restraint Used:</b>	
<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 With waivers/limitations	<b>Last FAA Medical Exam:</b>	May 7, 2004
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	January 15, 2011
<b>Flight Time:</b>	439 hours (Total, all aircraft), 257 hours (Total, this make and model), 367 hours (Pilot In Command, all aircraft), 20 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	ROLLADEN SCHNEIDER OHG	<b>Registration:</b>	N84AM
<b>Model/Series:</b>	LS-3-17	<b>Aircraft Category:</b>	Glider
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	3466
<b>Landing Gear Type:</b>	Retractable - Tailwheel	<b>Seats:</b>	1
<b>Date/Type of Last Inspection:</b>	April 29, 2011 Annual	<b>Certified Max Gross Wt.:</b>	1041 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	0
<b>Airframe Total Time:</b>	884 Hrs at time of accident	<b>Engine Manufacturer:</b>	
<b>ELT:</b>	Not installed	<b>Engine Model/Series:</b>	
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	
<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>	KVCV,2885 ft msl	<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	10 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	130°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>		<b>Temperature/Dew Point:</b>	31°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Adelanto, CA (0CL1)	<b>Type of Flight Plan Filed:</b>	Unknown
<b>Destination:</b>	Adelanto, CA (0CL1)	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>		<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	Krey Field Airport 0CL1	<b>Runway Surface Type:</b>	Dirt
<b>Airport Elevation:</b>	3042 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	07	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3360 ft / 100 ft	<b>VFR Approach/Landing:</b>	Full stop;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Serious	<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 Serious	<b>Latitude, Longitude:</b>	34.568332,-117.553337

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Rich, Jefferey
<b>Additional Participating Persons:</b>	Michael J Spencer; Federal Aviation Administration; Riverside, CA
<b>Original Publish Date:</b>	October 20, 2011
<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=81153">https://data.nts.gov/Docket?ProjectID=81153</a>

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