



National Transportation Safety Board Aviation Accident Final Report

Location:	LK BUENA VISTA, FL	Accident Number:	MIA87FA220
Date & Time:	08/01/1987, 1314 EDT	Registration:	N910DW
Aircraft:	BUCCANEER XA-430	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	1 Fatal

Flight Conducted Under: Part 91: General Aviation -

Analysis

THE ACCIDENT OCCURRED WHILE THE ACFT WAS FLYING AT AN EST 800 TO 1000 FT. PERSONS ON THE GRND HEARD A BANG, THEN LOOKED UP AND SAW THE ACFT IN A SPIN TO THE RT WITH THE RT WING FOLDED BACK OVER THE FUSELAGE. THE ACFT HIT THE GRND IN A NEAR VERTICAL ATTITUDE. TWO WITNESSES SAW THE ACFT DOING LOOPS JUST PRIOR TO THE ACCIDENT. THE ACFT IS PROHIBITED FROM DOING AEROBATICS. THE PLT HAD BEEN WARNED BY ANOTHER AEROBATIC PLT NOT TO PERFORM AEROBATICS ON ANOTHER OCCASION. AN EXAM OF THE WRECKAGE REVEALED THAT THE RT WING ATTACH SHACKLE HAD FAILED IN OVERLOAD.

Probable Cause and Findings

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

Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation: MANEUVERING

Findings

1. (C) WING,WING ATTACHMENT FITTING - FAILURE,TOTAL
2. (F) AEROBATICS - PERFORMED - PILOT IN COMMAND
3. (C) WING,WING ATTACHMENT FITTING - OVERLOAD
4. (C) DESIGN STRESS LIMITS OF AIRCRAFT - EXCEEDED - PILOT IN COMMAND
5. (F) JUDGMENT - POOR - PILOT IN COMMAND

Occurrence #2: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: MANEUVERING

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Commercial	Age:	27, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land; Single-engine Sea	Seat Occupied:	Center
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 2 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	689 hours (Total, all aircraft), 214 hours (Total, this make and model), 600 hours (Pilot In Command, all aircraft), 100 hours (Last 90 days, all aircraft), 25 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BUCCANEER	Registration:	N910DW
Model/Series:	XA-430 XA-430	Aircraft Category:	Ultralight
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental	Serial Number:	B000A226447
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	05/16/1987, 100 Hour	Certified Max Gross Wt.:	600 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	273 Hours	Engine Manufacturer:	ROTAX
ELT:	Not installed	Engine Model/Series:	447
Registered Owner:	WALT DISNEY WORLD CO.	Rated Power:	40 hp
Operator:	WALT DISNEY WORLD CO.	Operating Certificate(s) Held:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	MCO, 96 ft msl	Distance from Accident Site:	14 Nautical Miles
Observation Time:	1247 EDT	Direction from Accident Site:	80°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	10 Miles
Lowest Ceiling:	Broken / 3000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	260°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	33° C / 22° C
Precipitation and Obscuration:			
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1300 EDT	Type of Airspace:	Class G

Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Fatal	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	RONALD W BIRD	Report Date:	10/07/1988
Additional Participating Persons:	JOHN ZIELINSKY; ORLANDO, FL		
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinquiry@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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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](#).