



National Transportation Safety Board Aviation Accident Data Summary

Location:	SCHAUMBURG, IL	Accident Number:	CHI91DEE05
Date & Time:	06/01/1991, 1730 CDT	Registration:	N123CR
Aircraft:	CHARLES RAUCCI, JR. FIREBOLT	Injuries:	1 Minor, 1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

THE OWNER BUILDER OF AN EXPERIMENTAL AIRPLANE EXPERIENCED PARTIAL POWER LOSS DURING CLIMB FROM TAKEOFF ON A TEST FLIGHT AFTER COMPLETION OF CONSTRUCTION. THE AIRPLANE LANDED OFF AIRPORT. EXAMINATION OF THE ENGINE REVEALED NO DISCREPANCY. THE SOLE DISCREPANCY FOUND ON THE FUEL SYSTEM WAS A FUEL TANK VENT CUT SQUARELY ACROSS INSTEAD OF THE KIT MANUFACTURER'S SPECIFIED FORWARD FACING ANGLE CUT.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT NOT FOLLOWING THE SPECIFICATION FOR INSTALLATION OF THE FUEL TANK VENT.

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - NONMECHANICAL
Phase of Operation: TAKEOFF

Findings

1. FUEL SYSTEM, VENT - INCORRECT
 2. (C) MAINTENANCE, INSTALLATION - IMPROPER - PILOT IN COMMAND
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Occurrence #2: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: DESCENT - EMERGENCY

Findings

3. OBJECT - TREE(S)
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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Pilot Information

Certificate:	Private	Age:	50
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	1250 hours (Total, all aircraft), 2 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	CHARLES RAUCCI, JR.	Registration:	N123CR
Model/Series:	FIREBOLT FIREBOLT	Engines:	1 Reciprocating
Operator:	CHARLES RAUCCI, JR.	Engine Manufacturer:	LYCOMING
Operating Certificate(s) Held:	None	Engine Model/Series:	IO-360-A2B
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	DPA, 760 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	Broken / 25000 ft agl	Wind Speed/Gusts, Direction:	6 knots / , 90°
Temperature:	-18°C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	Destination:		

Airport Information

Airport:	SCHAUMBURG (06C)	Runway Surface Type:	Water
Runway Used:	0	Runway Surface Condition:	Water--calm
Runway Length/Width:			

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC): George W Bean

Adopted Date: 03/31/1993

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 pubinq@ntsb.gov, or at 800-877-6799. Dockets released after this date are available at <http://dms.nts.gov/pubdms/>.

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