



# National Transportation Safety Board Aviation Accident Data Summary

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<b>Location:</b>	FT. SCOTT, KS	<b>Accident Number:</b>	MKC88DCQ01
<b>Date &amp; Time:</b>	01/01/1988, 1100 CST	<b>Registration:</b>	N87LF
<b>Aircraft:</b>	FLAGG STAR LITE	<b>Injuries:</b>	1 Fatal
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

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## Analysis

THE PILOT HAD PLANNED TO MAKE SEVERAL PASSES OVER HIS PARENTS' HOUSE. ON THE THIRD PASS WITNESSES OBSERVED A WING DEPART THE AIRCRAFT AND THE AIRCRAFT FELL FROM THE SKY. THE AIRCRAFT CAME TO REST IN A RIVER. EXAM OF THE AIRCRAFT COMPONENTS REVEALED A SPAR AND SPAR ATTACHMENT FAILURE. COMPARISON OF THE MANUFACTURING PROCESS DISCLOSED AN IMPROPERLY CONSTRUCTED MAIN SPAR (WHERE THE SPARS ATTACH TO EACH OTHER AND TO THE FUSELAGE). A REVIEW OF THE PILOT'S LOG BOOKS DID NOT SHOW ANY LOGGED TIME IN THIS AIRCRAFT.

## Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:  
THE FAILURE OF THE MAIN SPARS AT THE ATTACHMENT POINTS INSIDE THE FUSELAGE.

## Findings

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

### Findings

1. (C) WING,SPAR - FAILURE,TOTAL
2. (C) ACFT/EQUIP,INADEQUATE DESIGN - MANUFACTURER

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

### Findings

3. WING - SEPARATION

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

## Pilot Information

<b>Certificate:</b>	Commercial; Private	<b>Age:</b>	34
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Instrument Rating(s):</b>	Airplane
<b>Other Aircraft Rating(s):</b>		<b>Instructor Rating(s):</b>	None
<b>Flight Time:</b>	281 hours (Total, all aircraft), 148 hours (Pilot In Command, all aircraft), 16 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	FLAGG	<b>Registration:</b>	N87LF
<b>Model/Series:</b>	STAR LITE STAR LITE	<b>Engines:</b>	1 Reciprocating
<b>Operator:</b>	VERNON H. PAVEY	<b>Engine Manufacturer:</b>	ROTAX
<b>Operating Certificate(s) Held:</b>	None	<b>Engine Model/Series:</b>	447
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	CNU, 1001 ft msl	<b>Weather Information Source:</b>	Weather Observation Facility
<b>Lowest Ceiling:</b>	None / 0 ft agl	<b>Wind Speed/Gusts, Direction:</b>	10 knots / , 340°
<b>Temperature:</b>	-7° C	<b>Visibility</b>	0 Miles
<b>Precipitation and Obscuration:</b>			
<b>Departure Point:</b>	FORT SCOTT, KS (FSK)	<b>Destination:</b>	

## Wreckage and Impact Information

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

## Administrative Information

<b>Investigator In Charge (IIC):</b>	R D GLASCOCK	<b>Adopted Date:</b>	04/24/1990
<b>Investigation Docket:</b>	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 <a href="mailto:pubinq@ntsb.gov">pubinq@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .		

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