



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	LAURENS, SC	<b>Accident Number:</b>	ATL88LA223
<b>Date &amp; Time:</b>	08/01/1988, 1800 EDT	<b>Registration:</b>	N8191J
<b>Aircraft:</b>	PIPER PA-34-200T	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None

**Flight Conducted Under:** Part 91: General Aviation - Personal

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## Analysis

THE PLT RPRTD THAT WHEN HE LANDED, EVERYTHING SEEMED NORMAL UNTIL HE WAS LOWERING THE NOSE TO THE RWY DRG THE LANDING ROLL. AT THAT TIME, THE LEFT WING BEGAN TO SETTLE. AT FIRST, HE THOUGHT THE LEFT TIRE WAS GOING FLAT, BUT THE SETTLING CONTINUED. SUBSEQUENTLY, THE ACFT WENT OFF THE LEFT SIDE OF THE RWY & DAMAGED 2 RWY LIGHTS BEFORE SKIDDING TO A STOP. AN EXAM REVEALED THE LEFT MAIN GEAR STRUT HOUSING/TRUNNION HAD FAILED. A METALLURGICAL EXAM REVEALED THE PRESENCE OF FATIGUE IN THE STRUT BARREL.

## Probable Cause and Findings

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

## Findings

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Occurrence #1: MAIN GEAR COLLAPSED

Phase of Operation: LANDING - ROLL

Findings

1. (C) LANDING GEAR,MAIN GEAR STRUT - FATIGUE

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Occurrence #2: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

Findings

2. DIRECTIONAL CONTROL - NOT POSSIBLE

3. GROUND LOOP/SWERVE - UNCONTROLLED

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Occurrence #3: ON GROUND/WATER COLLISION WITH OBJECT

Phase of Operation: LANDING

Findings

4. OBJECT - RUNWAY LIGHT

## Factual Information

### Pilot Information

<b>Certificate:</b>	Airline Transport; Flight Instructor	<b>Age:</b>	33, Male
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt, Shoulder harness
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	Airplane Single-engine; Instrument Airplane	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Valid Medical--w/ waivers/lim.	<b>Last FAA Medical Exam:</b>	08/07/1987
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	4207 hours (Total, all aircraft), 254 hours (Total, this make and model), 4176 hours (Pilot In Command, all aircraft), 108 hours (Last 90 days, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	PIPER	<b>Registration:</b>	N8191J
<b>Model/Series:</b>	PA-34-200T PA-34-200T	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	34-8070191
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	7
<b>Date/Type of Last Inspection:</b>	05/06/1988, Annual	<b>Certified Max Gross Wt.:</b>	4570 lbs
<b>Time Since Last Inspection:</b>	97 Hours	<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>	1818 Hours	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	LTSIO-360-E
<b>Registered Owner:</b>	JULIAN G. HUNT	<b>Rated Power:</b>	200 hp
<b>Operator:</b>	CABEZA, ANTHONY R.	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	GSP, 972 ft msl	Distance from Accident Site:	26 Nautical Miles
Observation Time:	1751 EDT	Direction from Accident Site:	330°
Lowest Cloud Condition:	Scattered / 5500 ft agl	Visibility	10 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	90°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	36° C / 18° C
Precipitation and Obscuration:			
Departure Point:	GREENVILLE, SC (GMU)	Type of Flight Plan Filed:	None
Destination:	N. MYRTLE BEACH, SC (CRE)	Type of Clearance:	None
Departure Time:	1545 EDT	Type of Airspace:	Class G

## Airport Information

Airport:	LAURENS COUNTY (34A)	Runway Surface Type:	Asphalt
Airport Elevation:	698 ft	Runway Surface Condition:	Dry
Runway Used:	7	IFR Approach:	None
Runway Length/Width:	3200 ft / 60 ft	VFR Approach/Landing:	Full Stop; Traffic Pattern

## Wreckage and Impact Information

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

## Administrative Information

Investigator In Charge (IIC):	WALTER G STINER	Report Date:	12/03/1989
Additional Participating Persons:	L P SHERRER; COLUMBIA, SC		
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 <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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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](#).