



National Transportation Safety Board Aviation Accident Data Summary

Location:	GREER, SC	Accident Number:	ATL84LA035
Date & Time:	11/01/1983, 1016 EST	Registration:	N40249
Aircraft:	PIPER PA-23-250	Injuries:	4 None
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Analysis

DURING THE FLT, HYDRAULIC FAILURE OF THE LANDING SYS OCCURRED & THE AIRCREW WERE UNABLE TO GET THE GEAR LOCKED IN THE DOWN POSITION. AFTER ORBITING FOR OVER AN HOUR, A LANDING WAS MADE. DURING TOUCHDOWN, THE GEAR COLLAPSED. AN EXAM REVEALED THAT AN AILERON BALANCE CABLE HAD CHAFED AGAINST A HYDRAULIC LINE IN THE LANDING GEAR SYS UNTIL A HOLE WAS WORN THRU THE LINE. THIS ALLOWED THE HYDRAULIC FLUID TO LEAK OUT.

Probable Cause

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: UNKNOWN

Findings

1. (C) HYDRAULIC SYSTEM,LINE - CHAFED
2. (C) FLUID,HYDRAULIC - LEAK
3. LANDING GEAR,NORMAL RETRACTION/EXTENSION ASSEMBLY - INOPERATIVE
4. LANDING GEAR,EMERGENCY EXTENSION ASSEMBLY - INOPERATIVE
5. GEAR DOWN AND LOCKED - NOT POSSIBLE

Occurrence #2: GEAR COLLAPSED
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	25
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):		Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine
Flight Time:	871 hours (Total, all aircraft), 20 hours (Total, this make and model), 97 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N40249
Model/Series:	PA-23-250 PA-23-250	Engines:	2 Reciprocating
Operator:	CORNERSTONE AVIATION, INC.	Engine Manufacturer:	LYCOMING
Operating Certificate(s) Held:	None	Engine Model/Series:	IO-540-C4B5
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	GSP, 972 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	/ , Variable
Temperature:	12° C	Visibility	7 Miles
Precipitation and Obscuration:			
Departure Point:	GREENVILLE, SC (GMU)	Destination:	

Airport Information

Airport:	GREENVILLE-SPARTANBURG (GSP)	Runway Surface Type:	Asphalt
Runway Used:	3	Runway Surface Condition:	Dry
Runway Length/Width:	7600 ft / 150 ft		

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	3 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC):	RICHARD P SHIPMAN	Adopted 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 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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