



Aviation Investigation Final Report

Location:	Boscobel, Wisconsin	Accident Number:	CHI05CA240
Date & Time:	August 19, 2005, 19:00 Local	Registration:	N425AH
Aircraft:	Piper PA-12	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The tailwheel airplane piloted by a certified flight instructor, sustained substantial damage on impact with terrain when the right main landing gear broke during the landing. The flight instructor stated, "After landing on the hard surface of runway 20, the airplane started a mild left turn towards the grass on the side of the runway. A bolt had broken on the right main gear attach bracket. The right gear folded under the airplane at about 15 mph. The gear broke and pushed the plane up in the air about 5 feet and then fell. The prop stuck in the ground. The wing bent outboard. No injuries."

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The separation of the right main landing gear attachment bracket bolt during the landing and the pilot's aircraft control not possible with the collapsed gear.

Findings

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

Findings

1. (C) LANDING GEAR,MAIN GEAR ATTACHMENT - SEPARATION
2. (C) AIRCRAFT CONTROL - NOT POSSIBLE - PILOT IN COMMAND(CFI)

Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER
Phase of Operation: LANDING

Findings

3. TERRAIN CONDITION - RUNWAY
4. TERRAIN CONDITION - GROUND

Factual Information

On August 19, 2005, about 1900 central daylight time, a Piper PA-12, N425AH, piloted by a certified flight instructor, sustained substantial damage on impact with terrain when the right main landing gear broke during a landing on runway 20 at the Boscobel Airport, near Boscobel, Wisconsin. The instructional flight was operating under 14 Code of Federal Regulations Part 91. Visual meteorological conditions prevailed at the time of the accident. No flight plan was on file. The pilot reported that he and his student were uninjured. The local flight was originating at the time of the accident.

The flight instructor's accident report stated:

I was giving dual instruction to a private pilot for the purpose of a tailwheel endorsement. After landing on the hard surface of runway 20, the airplane started a mild left turn towards the grass on the side of the runway. A bolt had broken on the right main gear attach bracket. The right gear folded under the airplane at about 15 mph. The gear broke and pushed the plane up in the air about 5 feet and then fell. The prop stuck in the ground. The wing bent outboard. No injuries.

Flight instructor Information

Certificate:	Commercial	Age:	72, Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	February 1, 2005
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	October 1, 2004
Flight Time:	19300 hours (Total, all aircraft), 200 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N425AH
Model/Series:	PA-12	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	12-817
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	August 1, 2005 Annual	Certified Max Gross Wt.:	1750 lbs
Time Since Last Inspection:	1 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1775 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	O-235-C1
Registered Owner:	Ronald V. Huls	Rated Power:	108 Horsepower
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	OVS,672 ft msl	Distance from Accident Site:	
Observation Time:	18:53 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	0 knots / 0 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.86 inches Hg	Temperature/Dew Point:	28°C / 21°C
Precipitation and Obscuration:			
Departure Point:	Boscobel, WI (OVS)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:		Type of Airspace:	

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	43.160278,-90.675552

Administrative Information

Investigator In Charge (IIC):	Malinowski, Edward
Additional Participating Persons:	Don Pflieger; Milwaukee, WI, FSDO
Original Publish Date:	October 27, 2005
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=62363

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