



Aviation Investigation Final Report

Location:	Baltimore, Maryland	Accident Number:	ERA10CA183
Date & Time:	March 17, 2010, 10:00 Local	Registration:	N7925Y
Aircraft:	Piper PA-30	Aircraft Damage:	Substantial
Defining Event:	Landing gear collapse	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot stated that he accumulated 26 hours of flight time in the accident airplane about 2 years prior to the accident, but had not flown the accident airplane since. About 1 week prior to the accident, the pilot obtained his airplane multiengine rating in a different make and model than the accident airplane. The pilot stated that the purpose of the accident flight was to perform full-stop landings in order to familiarize himself with the airplane. While on the downwind leg of the traffic pattern for the first landing, he was cleared by the air traffic control tower for a "touch-and-go." After the airplane touched down, the pilot applied full power, and intended to retract the wing flaps, but inadvertently retracted the landing gear instead. The landing gear "immediately" collapsed, and the airplane slid to a stop on its underside. Both wings were substantially damaged. The pilot stated there were no mechanical malfunctions or failures, and that the accident might have been prevented if he had declined the touch-and-go landing, and had taken time to become more familiar with the locations of the landing gear and flap controls. He also stated that he had recently trained in an airplane with a "different layout," and his "sense memory for the controls was wrong."

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's inadvertent retraction of the landing gear during a touch-and-go landing. Contributing to the accident was the pilot's lack of recent experience in the make and model airplane.

Findings

Aircraft	Gear extension and retract sys - Unintentional use/operation	
Personnel issues	Incorrect action performance - Pilot	
Personnel issues	Recent experience w/ equipment - Pilot	

Factual Information

History of Flight

Takeoff

Landing gear collapse (Defining event)

Pilot Information

Certificate:	Private	Age:	47,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	June 11, 2008
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 6, 2010
Flight Time:	633 hours (Total, all aircraft), 26 hours (Total, this make and model), 538 hours (Pilot In Command, all aircraft), 11 hours (Last 90 days, all aircraft), 11 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N7925Y
Model/Series:	PA-30	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	30-1015
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	September 15, 2009 Annual	Certified Max Gross Wt.:	3750 lbs
Time Since Last Inspection:		Engines:	2 Reciprocating
Airframe Total Time:	8700 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	IO-320 SERIES
Registered Owner:	On file	Rated Power:	160 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	MTN,21 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	09:50 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	350°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.07 inches Hg	Temperature/Dew Point:	13°C / 0°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Baltimore, MD (MTN)	Type of Flight Plan Filed:	None
Destination:	Baltimore, MD (MTN)	Type of Clearance:	None
Departure Time:	09:25 Local	Type of Airspace:	

Airport Information

Airport:	Martin State MTN	Runway Surface Type:	Asphalt
Airport Elevation:	21 ft msl	Runway Surface Condition:	Dry
Runway Used:	33	IFR Approach:	None
Runway Length/Width:	6996 ft / 180 ft	VFR Approach/Landing:	Touch and go

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	39.325553,-76.413612(est)

Administrative Information

Investigator In Charge (IIC):	Huhn, Michael
Additional Participating Persons:	Anthony Serio; FAA/FSDO; Baltimore, MD
Original Publish Date:	July 22, 2010
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=75556

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