



Aviation Investigation Final Report

Location:	Oshkosh, Wisconsin	Accident Number:	GAA17CA451
Date & Time:	July 28, 2017, 10:30 Local	Registration:	N410BP
Aircraft:	MARK GOLDBERG BEARHAWK PATROL	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot of the tailwheel-equipped airplane reported that, during the landing roll in crosswind conditions, when "transitioning from rudder to braking, the tail started rapidly swinging to the left due to wind." He added that "rudder correction was ineffective," and he applied wheel brakes, but the airplane continued in the ground loop clockwise, the left main landing gear collapsed, and the left wing impacted the runway.

The left wing sustained substantial damage.

The pilot reported that there were no preaccident mechanical malfunctions or failures with the airplane that would have precluded normal operation.

An automated weather observation station at the accident airport reported, about the time of the accident, wind from 040° at 8 knots. The pilot reported that, while on short final, the air traffic tower controller announced, "wind 050 at 12." The pilot added that the landing was on runway 36.

Probable Cause and Findings

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

The pilot's failure to maintain directional control during the landing roll in crosswind conditions, which resulted in a ground loop.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Directional control - Not attained/maintained
Environmental issues	Crosswind - Effect on operation

Factual Information

History of Flight

Landing-landing roll	Other weather encounter
Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Landing gear collapse
Landing-landing roll	Abnormal runway contact

Pilot Information

Certificate:	Private	Age:	61, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	BasicMed With waivers/limitations	Last FAA Medical Exam:	July 19, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 742 hours (Total, all aircraft), 43 hours (Total, this make and model), 692 hours (Pilot In Command, all aircraft), 20 hours (Last 90 days, all aircraft), 19 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	MARK GOLDBERG	Registration:	N410BP
Model/Series:	BEARHAWK PATROL NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	2012	Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	P01-P001/P002-P
Landing Gear Type:	Tailwheel	Seats:	
Date/Type of Last Inspection:		Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:		Engine Model/Series:	O-360
Registered Owner:	On file	Rated Power:	
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:	KOSH,808 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	15:53 Local	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	40°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.07 inches Hg	Temperature/Dew Point:	22°C / 14°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Oshkosh, WI (OSH)	Type of Flight Plan Filed:	None
Destination:	Oshkosh, WI (OSH)	Type of Clearance:	VFR
Departure Time:	10:05 Local	Type of Airspace:	Class D

Airport Information

Airport:	WITTMAN RGNL OSH	Runway Surface Type:	Concrete
Airport Elevation:	808 ft msl	Runway Surface Condition:	Dry
Runway Used:	36	IFR Approach:	None
Runway Length/Width:	8002 ft / 150 ft	VFR Approach/Landing:	Full stop

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:	43.984443,-88.556945(est)

Administrative Information

Investigator In Charge (IIC):	Gerhardt, Adam
Additional Participating Persons:	Peter Corrao; FAA/ FSDO; Milwaukee, WI
Original Publish Date:	November 14, 2017
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=95706

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