



Location: Livermore, California Accident Number: LAX03CA246

Date & Time: July 13, 2003, 10:30 Local Registration: N25SF

Aircraft: Maysmike Pitts S1S Aircraft Damage: Substantial

**Defining Event:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

## **Analysis**

The airplane ground looped during the landing roll. After practicing touch-and-go's at another airport, the pilot returned for landing. The touchdown was normal except for a "slight bounce." During the roll out, the left wing lifted and the airplane turned slightly to the left. The pilot applied "rudder correction with [the] stick full back." The airplane continued to turn left and he attempted differential braking; however, the airplane continued to turn left. The airplane came to rest facing about 90 degrees left of the runway heading. The right wing sustained a broken spar and broken ribs, and the right landing gear was bent during the turn. In a post accident examination, all flight controls functioned properly and no preimpact anomalies were found. The winds reported at 0953 were 240 degree at 6 knots. The winds reported at 1053 were 230 degrees at 7 knots.

## **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's inadequate compensation for crosswind conditions, which resulted in a loss of directional control and a ground loop.

## **Findings**

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

### Findings

1. WEATHER CONDITION - CROSSWIND

2. (C) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND

3. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND

4. (C) GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND

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Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: LANDING - ROLL

### **Findings**

5. TERRAIN CONDITION - RUNWAY

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## **Factual Information**

On July 13, 2003, about 1030 Pacific daylight time, an experimental Maysmike Pitts S1S, N25SF, ground looped during the landing roll out at Livermore Airport (LVK), Livermore, California. The pilot was operating the airplane under the provisions of 14 CFR Part 91. The pilot was not injured; the airplane sustained substantial damage. The flight departed Livermore about 0900 for the local area personal flight. Visual meteorological conditions prevailed and no flight plan had been filed.

In a written statement, the pilot reported after practicing touch-and-go's at Byron Airport (C83), Byron, California, he returned for landing at Livermore, runway 25. The touchdown was normal except for a "slight bounce." During the roll out, the left wing lifted and the airplane turned slightly to the left. The pilot applied "rudder correction with [the] stick full back." The airplane continued to turn left and he attempted differential braking; however, the airplane continued to turn left. The airplane came to rest facing about 90 degrees left of the runway heading. The right wing sustained a broken spar and broken ribs, and the right landing gear was bent during the turn.

The Federal Aviation Administration (FAA) inspector examined the airplane. All flight controls functioned properly and no preimpact anomalies were found.

The winds reported by the Livermore Aviation Routine Weather Report (METAR) at 0953 were 240 degree at 6 knots. The winds reported at 1053 were 230 degrees at 7 knots.

### **Pilot Information**

Certificate:	Private	Age:	40,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medical–w/ waivers/lim	Last FAA Medical Exam:	April 11, 2003
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	277 hours (Total, all aircraft), 39 hours (Total, this make and model), 8 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Maysmike	Registration:	N25SF
Model/Series:	Pitts S1S	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	MLM-001
Landing Gear Type:	Tailwheel	Seats:	
Date/Type of Last Inspection:		Certified Max Gross Wt.:	1150 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:		Engine Model/Series:	AEIO-360 Ser
Registered Owner:	Douglas Hiranaka	Rated Power:	
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KLVK,400 ft msl	Distance from Accident Site:	
Observation Time:	10:53 Local	Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	230°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.1 inches Hg	Temperature/Dew Point:	24°C / 14°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	Livermore, CA (KLVK)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	VFR
Departure Time:	09:00 Local	Type of Airspace:	Class D
Precipitation and Obscuration:  Departure Point:  Destination:	No Obscuration; No Precipita Livermore, CA (KLVK)	Temperature/Dew Point: ation Type of Flight Plan Filed: Type of Clearance:	None VFR

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# **Airport Information**

Airport:	Livermore KLVK	Runway Surface Type:	
Airport Elevation:		<b>Runway Surface Condition:</b>	
Runway Used:	25	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	

# Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	37.693332,-121.820274

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#### **Administrative Information**

Investigator In Charge (IIC):	Charnon, Nicole
Additional Participating Persons:	Harold Carnahan; Oakland FSDO; Oakland, CA
Original Publish Date:	November 25, 2003
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=57580

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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