

# **Aviation Investigation Final Report**

Location: Palo Alto, California Accident Number: LAX01LA095

Date & Time: February 9, 2001, 14:12 Local Registration: N3191A

Aircraft: Beech A36 Aircraft Damage: Substantial

**Defining Event:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

The airplane's right wing struck the ground and the airplane came to rest on the runway following a loss of control on an attempted go-around. The pilot had received 107.9 hours of dual instruction and was making his first solo flight in the airplane. The purpose of the flight was to practice takeoffs and landings. The pilot selected approach flaps on downwind but never checked their position. On short final, the pilot sensed his descent rate was too great and attempted a go-around. The airplane drifted towards the left and then rolled right continuing to descend until it struck the ground. Postcrash examination of the engine and propeller revealed impact damage that was consistent with the propeller having contacted the ground in a high airplane pitch attitude, and a propeller blade angle consistent with a "power on" condition.

### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot-in-command's delayed decision to go-around and his failure to maintain sufficient airspeed during the attempted go-around. His non-verification of the flap setting contributed to the accident.

### **Findings**

Occurrence #1: LOSS OF CONTROL - IN FLIGHT Phase of Operation: GO-AROUND (VFR)

#### Findings

- 1. WEATHER CONDITION CROSSWIND
- 2. (F) FLAPS NOT VERIFIED PILOT IN COMMAND
- 3. (C) IN-FLIGHT PLANNING/DECISION DELAYED PILOT IN COMMAND 4. (C) AIRSPEED LOW PILOT IN COMMAND

Page 2 of 6 LAX01LA095

#### **Factual Information**

On February 9, 2001, at 1412 hours Pacific standard time, a Beech A36, N3191A, sustained substantial damage when the it struck the ground during an attempted go-around at the Palo Alto, California, airport. The private pilot operated the airplane under the provisions of 14 CFR Part 91, and was not injured. The personal local flight departed approximately 1400. Visual meteorological conditions prevailed, and no flight plan had been filed.

When interviewed by National Transportation Safety Board investigators, the pilot stated that his intention was to practice takeoffs and landings. He extended downwind for spacing on a slower airplane, and recalls selecting approach flaps but does not recall checking the position of the flaps. The final approach was stable at 80 knots but when he was about 10 feet off the ground he sensed the airplane was sinking faster than normal and elected to go around. He added power but did not feel the engine respond. The airplane veered left and the left wing struck the ground, the left gear was sheared off, and the propeller was torn off the engine. The pilot said that after examining the airplane the flaps appeared to be up.

The airplane, equipped with a Rolls-Royce Model 250-B17F/2 Turboprop engine, had been purchased in August 2000. The pilot had received dual instruction in the airplane but his insurance carrier required he hold an instrument rating prior to acting as pilot-in-command. His instrument rating was received February 7, 2001. The pilot had received 107.9 hours of dual instruction in the airplane and the accident flight was his first solo flight in type.

A representative of Rolls-Royce Corporation participated in the investigation. No engine discrepancies were noted. However, the beta valve tie rod was displaced from the rod end connector. No signs of safety wire or damaged threads on the tie rod or rod end were noted. Upon removing the engine oil filter housing, no filter was found. It was noted that the compressor received leading edge damage to all first stage blades. Also, fuel control and fuel nozzle tests indicated no signs of malfunction.

A representative of Hartzell Propeller, Inc., the manufacturer of the propeller, participated in the investigation. The propeller blades were found in a high pitch/feather position. The piston had a clear impact mark, about 25 degrees blade angle. The representative explained that this is a realistic blade angle for a "power on" impact. The representative concluded that this mark indicated that the piston was at 25 degrees, or lower, blade angle prior to impact because the blades were driven to feather as a result of impact damage. He also found that the enginemounted beta valve link arm was disconnected and the lockwire was missing from the jam nut.

A pilot taxiing on a taxiway parallel to the runway witnessed the accident. He stated that he saw the airplane flare approximately one wingspan's height above the runway and begin

Page 3 of 6 LAX01LA095

drifting to the left. The airplane continued drifting to the left in a very nose-high attitude. It drifted over the taxiway about 40 feet agl. The drift stopped and the right wing dropped. The right wing hit the grass between the taxiway and the runway and the airplane spun around and stopped on the runway.

#### **Pilot Information**

Certificate:	Private	Age:	49,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	October 5, 1999
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	February 7, 2000
Flight Time:	619 hours (Total, all aircraft), 108 hours (Total, this make and model), 499 hours (Pilot In Command, all aircraft)		

### **Aircraft and Owner/Operator Information**

Aircraft Make:	Beech	Registration:	N3191A
Model/Series:	A36	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	E3291
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	August 21, 2000 Annual	Certified Max Gross Wt.:	3833 lbs
Time Since Last Inspection:	107 Hrs	Engines:	1 Turbo prop
Airframe Total Time:	119 Hrs at time of accident	Engine Manufacturer:	Rolls-Royce
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	250-B17F/2
Registered Owner:	Eliezer Pasternak	Rated Power:	450 Horsepower
Operator:		Operating Certificate(s) Held:	None

Page 4 of 6 LAX01LA095

### Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	PAO,4 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	14:15 Local	Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Few / 2000 ft AGL	Visibility	7 miles
Lowest Ceiling:	Broken / 3000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	230°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.89 inches Hg	Temperature/Dew Point:	10°C / 6°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	Palo Alto, CA (PAO )	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	VFR
Departure Time:	14:00 Local	Type of Airspace:	Class D

## **Airport Information**

Airport:	PALO ALTO ARPT OF SANTA CLARA PAO	Runway Surface Type:	Asphalt
Airport Elevation:	4 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	31	IFR Approach:	None
Runway Length/Width:	2500 ft / 65 ft	VFR Approach/Landing:	Full stop;Go around;Traffic pattern

### **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:	37.449291,-122.100608(est)

Page 5 of 6 LAX01LA095

#### **Administrative Information**

Baily, Frank Investigator In Charge (IIC): **Additional Participating** Jim Friel; AWP-SJC-FSDO Rege E Hall; Rolls-Royce Corporation; Indianapolis, IN Persons: Tom McCreary; Hartzell Propeller Inc.; Piqua, OH **Original Publish Date:** November 28, 2001 **Last Revision Date: Investigation Class:** Class The NTSB traveled to the scene of this accident. Note: **Investigation Docket:** https://data.ntsb.gov/Docket?ProjectID=51721

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.

Page 6 of 6 LAX01LA095