



National Transportation Safety Board Aviation Accident Data Summary

Location:	Bainbridge, GA	Accident Number:	ATL06LA114
Date & Time:	08/02/2006, 0847 EDT	Registration:	N342MN
Aircraft:	Beech D45	Injuries:	1 Minor
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot stated that he was on initial climb from runway 27, at 50 feet and 80 knots, when the engine started a "popping" noise and the engine had a partial loss of power. The pilot turned the boost pump on, the "popping" noise continued, and he made a right turn towards runway 14. The airspeed decreased to between 58 to 60 knots. The airplane stalled, collided with the ground, and a post crash fire ensued. The Beech Model D45 Flight Manual states the airplane will stall at 71 mph with a 0-degree angle of bank, and at 73 mph with a 20-degree angle of bank. The right main fuel tank was consumed by fire. Fuel samples were taken from the header tank and the left wing fuel tank. The samples were forwarded to a petroleum laboratory for further analysis. Examination of the fuel samples revealed the fuel would not have caused a loss of engine power or malfunction. Review of the engine logbook revealed the engine was overhauled on May 30, 2006, and the engine has been operated for 15 hours since it was reinstalled on the airplane. Examination of the engine revealed the fuel inlet (unmetered pressure) line was crossed with the fuel return (to fuel pump) line on the engine fuel pump. The fuel lines were repositioned and an engine run was initiated. The engine started and ran smoothly at 1,000 rpm. The rpm was increased to 2,200 rpm with no anomalies. The engine was not increased to full operating rpm due to damage to the airframe. The engine was shut down with the mixture control.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The improper maintenance installation of the fuel inlet line by other maintenance personnel resulting in a partial loss of engine power after takeoff due to fuel starvation.

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - NONMECHANICAL
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. FLUID,FUEL - STARVATION
2. (C) MAINTENANCE,INSTALLATION - IMPROPER - OTHER MAINTENANCE PERSONNEL

Occurrence #2: FORCED LANDING
Phase of Operation: MANEUVERING

Occurrence #3: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: MANEUVERING - TURN TO LANDING AREA (EMERGENCY)

Findings

3. AIRSPEED - INADEQUATE - PILOT IN COMMAND

4. STALL - INADVERTENT - PILOT IN COMMAND

Occurrence #4: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Findings

5. TERRAIN CONDITION - GROUND

Pilot Information

Certificate:	Private	Age:	76
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	814 hours (Total, all aircraft), 12 hours (Total, this make and model), 784 hours (Pilot In Command, all aircraft), 30 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	Beech	Registration:	N342MN
Model/Series:	D45	Engines:	1 Reciprocating
Operator:	Leon F. Jauert	Engine Manufacturer:	Continental
Air Carrier Operating Certificate:	None	Engine Model/Series:	IO-520-BA
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KBGE, 141 ft msl	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	None
Condition of Light:	Day	Wind Speed/Gusts, Direction:	Calm
Temperature:	29° C / 22° C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Bainbridge, GA (KBGE)	Destination:	(KBGE)

Airport Information

Airport:	Decatur Co Industrial Air Park (BGE)	Runway Surface Type:	Asphalt
Runway Used:	27	Runway Surface Condition:	Dry
Runway Length/Width:	5002 ft / 150 ft		

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None

Administrative Information

Investigator In Charge (IIC):	Carrol A Smith	Adopted Date:	01/31/2007
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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