



National Transportation Safety Board Aviation Accident Data Summary

Location:	BEDFORD, IN	Accident Number:	CHI88DEX06
Date & Time:	07/01/1988, 1815 EST	Registration:	N42684
Aircraft:	PIPER J3	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

AIRCRAFT WAS IN CRUISE FLIGHT AT 1000 FEET AGL WHEN THE PILOT HEARD A BACKFIRE FROM THE ENGINE FOLLOWED BY IMMEDIATE AND TOTAL LOSS OF POWER. FORCED LANDING WAS MADE IN RUGGED, ROCKY TERRAIN. LANDING GEAR SHEARED OFF ON ROLLOUT. INVESTIGATION REVEALED FAILURE OF MAGNETO TIMING GEAR, AND ITS FOUR ATTACHING BOLTS.

Probable Cause

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

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF
Phase of Operation: CRUISE - NORMAL

Findings

1. (C) ENGINE ASSEMBLY, TIMING GEAR - FAILURE, TOTAL

Occurrence #2: FORCED LANDING
Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

2. (F) TERRAIN CONDITION - OVERLOAD
3. LANDING GEAR, MAIN GEAR - OVERLOAD

Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	43
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	Airplane Single-engine
Flight Time:	1661 hours (Total, all aircraft), 200 hours (Total, this make and model), 1546 hours (Pilot In Command, all aircraft), 55 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N42684
Model/Series:	J3 J3	Engines:	1 Reciprocating
Operator:	DONALD G. HENDERSON	Engine Manufacturer:	CONTINENTAL
Operating Certificate(s) Held:	None	Engine Model/Series:	A65
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Weather Information Source:	Pilot
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	10 knots / , 90°
Temperature:		Visibility	0 Miles
Precipitation and Obscuration:			
Departure Point:		Destination:	

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	ALBERT C MICHAELS	Adopted Date:	07/10/1989
Investigation Docket:	NTSB accident and incident docket 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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