



# National Transportation Safety Board Aviation Accident Factual Report

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<b>Location:</b>	PROSPERITY, PA	<b>Accident Number:</b>	NYC01LA029
<b>Date &amp; Time:</b>	11/02/2000, 1200 EST	<b>Registration:</b>	N35241
<b>Aircraft:</b>	Cessna 177B	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	2 Minor
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

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On November 2, 2000, about 1200 Eastern Standard Time, a Cessna 177B, N35241, was substantially damaged after a forced landing near Prosperity, Pennsylvania. The certificated private pilot and pilot-rated passenger received minor injuries. Visual meteorological conditions prevailed and no flight plan was filed for the personal flight conducted under 14 CFR Part 91.

According to the pilot, he and the passenger were practicing maneuvers, for the commercial pilot practical test. While at an altitude of about 2,500 feet above the ground, the pilot heard a loud "pop," and the engine lost all power. The pilot made a force landing to a field. After touching down in the field, the airplane struck a fence and came to rest in briar bushes.

The pilot did not report any prior mechanical difficulties with the airplane's engine.

The airplane's magneto system, a Teledyne Continental Motors D-3000 Magneto Ignition system, was forwarded to Teledyne Mattituck Services Inc., Mattituck, New York, on January 10, 2001, and examined in the presence of a Federal Aviation Administration inspector. The inspector observed that both sets of points remained closed, regardless of the cam position, when the magneto system was tested. The inspector also stated that all securing hardware torque seals were intact and there was no evidence of point adjustment shifting.

A Safety Board investigator examined the magneto system on February 7, 2001. As the impulse coupling was turned, the lobes of the cam would not push the cam follower far enough to open the points.

## Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	39, Male
<b>Airplane Rating(s):</b>	Single-engine Land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt, Shoulder harness
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	09/11/2000
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	844 hours (Total, all aircraft), 42 hours (Total, this make and model), 763 hours (Pilot In Command, all aircraft), 9 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N35241
<b>Model/Series:</b>	177B 177B	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	17702285
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	05/10/2000, Annual	<b>Certified Max Gross Wt.:</b>	2500 lbs
<b>Time Since Last Inspection:</b>	96 Hours	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	5886 Hours	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	O-360-A1F6D
<b>Registered Owner:</b>	ABC FLYING CLUB INC	<b>Rated Power:</b>	180 hp
<b>Operator:</b>	ABC FLYING CLUB INC	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	AFJ, 1184 ft msl	Distance from Accident Site:	5 Nautical Miles
Observation Time:	1155 EST	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	10 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	160°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	61° C / 34° C
Precipitation and Obscuration:			
Departure Point:	WEST MIFFLIN, PA (AGC)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1030 EST	Type of Airspace:	Class G

## Wreckage and Impact Information

Crew Injuries:	2 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Minor	Latitude, Longitude:	

## Administrative Information

Investigator In Charge (IIC):	STEPHEN M DEMKO
Additional Participating Persons:	RON HORAK; ALLEGHENY, PA
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 <a href="mailto:pubinq@ntsb.gov">pubinq@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .