



# **Aviation Investigation Final Report**

Location: WORCESTER, Massachusetts Accident Number: NYC85LA193

Date & Time: July 24, 1985, 19:31 Local Registration: N999RH

Aircraft: PIPER PA-30 Aircraft Damage: Substantial

**Defining Event:** 3 None

Flight Conducted Under: Part 91: General aviation - Instructional

### **Analysis**

THE INSTRUCTOR (CFI) & STUDENT WERE PRACTICING TOUCH-&-GO LANDINGS. ON THE 4TH LANDING, THE APCH & TOUCHDOWN WERE MADE WITH FULL FLAPS EXTENDED. THE CFI BEGAN TO RETRACT THE FLAPS WHILE THE STUDENT APPLIED FULL POWER FOR TAKEOFF. THE ACFT BECAME AIRBORNE & BEGAN TO YAW TO THE LEFT. THE CFI TOOK CONTROL OF THE ACFT WHEN THE STUDENT COULD NO LONGER MAINTAIN DIRECTIONAL CONTROL. THE CFI THEN REDUCED POWER ON BOTH ENGS IN AN EFFORT TO LAND. THE ACFT COLLIDED WITH THE GROUND & BEGAN BURNING. THE CFI THOUGHT THAT THEY HAD EXPERIENCED A SPLIT FLAP CONDITION. HOWEVER, A VISUAL EXAM OF THE ACFT REVEALED THAT BOTH FLAPS WERE IN THE NEARLY FULL DOWN POSITION.

### **Probable Cause and Findings**

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

#### **Findings**

Occurrence #1: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: TAKEOFF

**Findings** 

1. TOUCH-AND-GO - INITIATED - DUAL STUDENT 2. (C) LIFT-OFF - IMPROPER - DUAL STUDENT

- 3. (C) DIRECTIONAL CONTROL NOT MAINTAINED DUAL STUDENT
- 4. (C) AIRCRAFT HANDLING NOT MAINTAINED DUAL STUDENT
- 5. (C) SUPERVISION INADEQUATE PILOT IN COMMAND(CFI)
- 6. (C) REMEDIAL ACTION DELAYED PILOT IN COMMAND(CFI)

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Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation: TAKEOFF

#### **Findings**

- 7. ABORTED TAKEOFF PERFORMED PILOT IN COMMAND(CFI)
- 8. FLARE NOT POSSIBLE

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## **Factual Information**

#### **Pilot Information**

Certificate:	Commercial; Flight instructor	Age:	49,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	January 2, 1985
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	4734 hours (Total, all aircraft), 80 hours (Total, this make and model), 4571 hours (Pilot In Command, all aircraft), 203 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

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

Aircraft Make:	PIPER	Registration:	N999RH
Model/Series:	PA-30 PA-30	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	30-421
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	August 24, 1984 Annual	Certified Max Gross Wt.:	3600 lbs
Time Since Last Inspection:	70 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	3460 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	IO-320-B1A
Registered Owner:	JAMES HERTZELL	Rated Power:	160 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:	AMITY INSTITUTE OF AEROTECH	Operator Designator Code:	

### Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	ORH ,1008 ft msl	Distance from Accident Site:	
Observation Time:	18:31 Local	Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Clear	Visibility	40 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	200°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	22°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ition	
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	18:40 Local	Type of Airspace:	Class D

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### **Airport Information**

Airport:	WORCESTER MUNI ORH	Runway Surface Type:	Asphalt
Airport Elevation:	1008 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	29	IFR Approach:	None
Runway Length/Width:	6999 ft / 150 ft	VFR Approach/Landing:	Touch and go;Traffic pattern

## Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	On-ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	

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#### **Administrative Information**

Investigator In Charge (IIC):	Taylor, Vernon
Additional Participating Persons:	
Original Publish Date:	
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=35930

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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