



Aviation Investigation Final Report

Location:	MIAMI, Florida	Accident Number:	MIA87DKT01
Date & Time:	November 8, 1986, 15:10 Local	Registration:	N22XP
Aircraft:	PITTS S-1T	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 Minor
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

AIRCRAFT COLLIDED WITH TREES WHILE RECOVERING FROM A SPIN WHICH WAS PERFORMED AT LOW ALTITUDE AS PART OF AN AIRSHOW PERFORMANCE. PILOT STATED HE MISJUDGED HEIGHT OF TREES AND RECOVERED FROM THE SPIN TOO LOW.

Probable Cause and Findings

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

Findings

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: MANEUVERING

Findings

1. OBJECT - TREE(S)
2. (F) AEROBATICS - PERFORMED - PILOT IN COMMAND
3. (C) PROPER ALTITUDE - NOT MAINTAINED - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Commercial	Age:	52, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Center
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 1 Valid Medical-w/ waivers/lim	Last FAA Medical Exam:	May 1, 1986
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	21000 hours (Total, all aircraft), 1800 hours (Total, this make and model), 126 hours (Pilot In Command, all aircraft), 129 hours (Last 90 days, all aircraft), 130 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PITTS	Registration:	N22XP
Model/Series:	S-1T S-1T	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Experimental (Special)	Serial Number:	002
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	July 2, 1986 100 hour	Certified Max Gross Wt.:	1150 lbs
Time Since Last Inspection:	6 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	585 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	AE10-360-A1D
Registered Owner:	WILLIAM K. LANCASTER	Rated Power:	200 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	MIA ,10 ft msl	Distance from Accident Site:	
Observation Time:	15:13 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 2000 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	20 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	70°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	28°C / 23°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	MIAMI , FL (TMB)	Type of Flight Plan Filed:	None
Destination:	MIAMI , FL (TMB)	Type of Clearance:	VFR
Departure Time:	15:00 Local	Type of Airspace:	Class E

Airport Information

Airport:	TAMIAMI TMB	Runway Surface Type:	
Airport Elevation:	10 ft msl	Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC): Frank, Albert

Additional Participating Persons: CHARLES E GRANT; MIAMI, FL
KENNETH W ROGERS; MIAMI, FL

Original Publish Date:

Last Revision Date:

Investigation Class: [Class](#)

Note:

Investigation Docket: <https://data.nts.gov/Docket?ProjectID=31724>

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](#).