



# Aviation Investigation Final Report

<b>Location:</b>	Sebastian, Florida	<b>Accident Number:</b>	ERA09CA089
<b>Date &amp; Time:</b>	December 13, 2008, 01:30 Local	<b>Registration:</b>	N6871N
<b>Aircraft:</b>	Mooney M20G	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Collision with terr/obj (non-CFIT)	<b>Injuries:</b>	1 Serious
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

While en route to his destination, at 4,500 feet above mean sea level and during night visual meteorological conditions, the pilot of a Mooney M20G experienced a total loss of engine power. The pilot attempted to restart the engine but was unsuccessful. He then executed the forced landing procedure and glided the airplane towards a "dark spot" on the ground. The airplane struck trees and then the ground. Postaccident examination of the airplane and engine did not reveal any preimpact malfunctions.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The loss of engine power for undetermined reasons.

## Findings

<b>Aircraft</b>	(general) - Failure
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## Factual Information

### History of Flight

<b>Enroute</b>	Loss of engine power (total)
<b>Emergency descent</b>	Collision with terr/obj (non-CFIT) (Defining event)

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	30, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 None	<b>Last FAA Medical Exam:</b>	February 13, 2008
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	December 21, 2007
<b>Flight Time:</b>	600 hours (Total, all aircraft), 200 hours (Total, this make and model)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Mooney	<b>Registration:</b>	N6871N
<b>Model/Series:</b>	M20G	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	680124
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	June 2, 2008 Annual	<b>Certified Max Gross Wt.:</b>	2525 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	4104 Hrs at time of accident	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-360-A1D
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	180 Horsepower
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Night
<b>Observation Facility, Elevation:</b>	VRB,24 ft msl	<b>Distance from Accident Site:</b>	10 Nautical Miles
<b>Observation Time:</b>	01:53 Local	<b>Direction from Accident Site:</b>	160°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	9 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	330°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.13 inches Hg	<b>Temperature/Dew Point:</b>	9°C / 5°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	West Palm Beach, FL (LNA )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Titusville, FL (TIX )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	00:30 Local	<b>Type of Airspace:</b>	

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Serious	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	N/A	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Serious	<b>Latitude, Longitude:</b>	27.813055,-80.495552(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Gunther, Todd
<b>Additional Participating Persons:</b>	Robert Potts; FAA/FSDO; Orlando, FL
<b>Original Publish Date:</b>	February 25, 2009
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=69560">https://data.nts.gov/Docket?ProjectID=69560</a>

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