



Aviation Investigation Final Report

Location: VERO BEACH, Florida Accident Number: MIA88LA022

Date & Time: October 29, 1987, 10:16 Local Registration: N413HM

Aircraft: MOONEY M20F Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

PLT STATED THAT WHILE TURNING FINAL APPROACH HE BELIEVES HE PLACED THE LANDING GEAR HANDLE IN THE DOWN POSITION AND OBSERVED RED GEAR INTRANSIT LIGHTS. HE WAS OCCUPIED BY A STRONG WIND FOR THE LANDING AND NEVER CHECKED FOR A GEAR DOWN AND SAFE INDICATION. THE ACFT WAS LANDED GEAR UP. POST ACCIDENT OPERATION OF THE LANDING GEAR SYSTEM REVEALED NO EVIDENCE TO INDICATE PRECRASH MECHANICAL FAILURE OR MALFUNCTION.

Probable Cause and Findings

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

Findings

Occurrence #1: GEAR NOT EXTENDED

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (C) GEAR EXTENSION - NOT PERFORMED - PILOT IN COMMAND

2. (C) DIVERTED ATTENTION - PILOT IN COMMAND

3. (F) CHECKLIST - NOT USED - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Commercial	Age:	68,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	None Expired	Last FAA Medical Exam:	November 10, 1982
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	2000 hours (Total, all aircraft), 310 hours (Total, this make and model), 1925 hours (Pilot In Command, all aircraft), 7 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	MOONEY	Registration:	N413HM
Model/Series:	M20F M20F	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	211179
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	December 3, 1986 Annual	Certified Max Gross Wt.:	2740 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1315 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	IO-360-A1A
Registered Owner:	MILLARD C BOYD	Rated Power:	200 Horsepower
Operator:	BOYD, MILLARD C.	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	VRB ,24 ft msl	Distance from Accident Site:	
Observation Time:	10:21 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 30000 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	13 knots / 22 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	360°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	22°C / 14°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	STUART , FL (SUA)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	VFR
Departure Time:	09:58 Local	Type of Airspace:	Class D

Airport Information

Airport:	VERO BEACH MUNIC. VRB	Runway Surface Type:	Asphalt
Airport Elevation:	24 ft msl	Runway Surface Condition:	Dry
Runway Used:	29L	IFR Approach:	None
Runway Length/Width:	6271 ft / 100 ft	VFR Approach/Landing:	Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	27.680534,-80.709014(est)

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Administrative Information

Investigator In Charge (IIC):	Kennedy, Jeffrey	
Additional Participating Persons:	GEORGE LITTLEFIELD; ORLANDO , FL	
Original Publish Date:	January 11, 1989	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=32081	

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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