



Aviation Investigation Final Report

Location: Watkins, Colorado Accident Number: DEN02LA072

Date & Time: June 30, 2002, 08:11 Local Registration: N6283U

Aircraft: Mooney M20C Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The purpose of the flight was to practice touch-and-go landings. The pilot said he "forgot to put the gear down" and landed wheels up, resulting in substantial damage to the airplane.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the pilot's failure to use the pre-landing checklist, resulting in an inadvertent wheels up landing.

Findings

Occurrence #1: WHEELS UP LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (C) CHECKLIST - NOT USED - PILOT IN COMMAND

2. (C) WHEELS UP LANDING - INADVERTENT - PILOT IN COMMAND

Factual Information

On June 30, 2002, at 0811 mountain daylight time, a Mooney M20C, N6283U, owned and operated by the pilot, was substantially damaged when it landed gear up at Front Range Airport (FTG), Watkins, Colorado. The private pilot, the sole occupant aboard, was not injured. Visual meteorological conditions prevailed, and no flight plan had been filed for the local personal flight being conducted under Title 14 CFR Part 91. The flight originated from Front Range Airport at 0755.

In a telephone interview and reiterated in his accident report, the pilot said that the purpose of the flight was to practice touch-and-go landings. He said he "forgot to put the gear down" when he made his first approach to runway 26 and landed wheels up. Damage consisted of a bent propeller, scraped panels underneath the airplane, a broken antenna, and bent ribs.

Pilot Information

Certificate:	Private	Age:	55.Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
All platte Rating(s).	Single-engine land	Seat Occupied.	Leit
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	February 14, 2001
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	139 hours (Total, all aircraft), 59 hours (Total, this make and model), 85 hours (Pilot In Command, all aircraft), 14 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Mooney	Registration:	N6283U
Model/Series:	M20C	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	2122
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	October 9, 2001 Annual	Certified Max Gross Wt.:	2575 lbs
Time Since Last Inspection:	68.6 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2528.5 Hrs	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	0-360-A1D
Registered Owner:	Roger L. Keithley	Rated Power:	180 Horsepower
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	DEN,5431 ft msl	Distance from Accident Site:	9 Nautical Miles
Observation Time:	07:53 Local	Direction from Accident Site:	310°
Lowest Cloud Condition:	Clear	Visibility	6 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	9 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	220°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.17 inches Hg	Temperature/Dew Point:	23°C / 1°C
Precipitation and Obscuration:	N/A - None - Haze		
Departure Point:	Watkins, CO (FTG)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	Unknown
Departure Time:	07:55 Local	Type of Airspace:	Class E

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Airport Information

Airport:	Front Range FTG	Runway Surface Type:	Asphalt
Airport Elevation:	5512 ft msl	Runway Surface Condition:	Dry
Runway Used:	26	IFR Approach:	None
Runway Length/Width:	8000 ft / 100 ft	VFR Approach/Landing:	Touch and go

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:	39.786388,-104.549446

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Administrative Information

Investigator In Charge (IIC):	Scott, Arnold	
Additional Participating Persons:	John R Botterill; FAA Flight Standards District Office; Denver, CO	
Original Publish Date:	January 16, 2003	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=55183	

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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