



National Transportation Safety Board Aviation Accident Final Report

Location:	Salem, IN	Accident Number:	CEN09CA244
Date & Time:	04/01/2009, 1850 EDT	Registration:	N115MS
Aircraft:	MOONEY M20J	Aircraft Damage:	Substantial
Defining Event:	Collision with terr/obj (non-CFIT)	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot was practicing takeoff and landings when he extended the landing gear and heard the landing gear motor start while the airplane was on the downwind leg to the runway. The pilot noticed that the landing gear was not down during the landing flare. The airplane touched down on the runway with the landing gear retracted, and the airplane skidded about 500 feet before coming to a stop. The airplane received substantial damage when the airplane's firewall and underside skin were damaged. During the airplane's recovery, the landing gear control handle was placed into the down position and the landing gear extended when the master switch was placed into the on position. Postaccident inspection of the airplane revealed no anomalies.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to follow the landing checklist and extended the landing gear.

Findings

Aircraft	Gear extension and retract sys - Not used/operated (Cause)
Personnel issues	Use of checklist - Pilot (Cause) Forgotten action/omission - Pilot (Cause)

Factual Information

History of Flight

Landing	Landing gear not configured
Landing-flare/touchdown	Collision with terr/obj (non-CFIT) (Defining event)

Pilot Information

Certificate:	Private	Age:	58, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With Waivers/Limitations	Last Medical Exam:	08/01/2007
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	3000 hours (Total, all aircraft), 550 hours (Total, this make and model), 3 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	MOONEY	Registration:	N115MS
Model/Series:	M20J	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	24-0031
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	02/20/2009, Annual	Certified Max Gross Wt.:	2740 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3366 Hours	Engine Manufacturer:	Textron Lycoming
ELT:	Installed, not activated	Engine Model/Series:	IO-360-A3B6D
Registered Owner:	Caren Schamel	Rated Power:	
Operator:	Pilot	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:		Observation Time:	
Distance from Accident Site:		Condition of Light:	Dusk
Direction from Accident Site:		Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:		Temperature/Dew Point:	
Lowest Ceiling:		Visibility	
Wind Speed/Gusts, Direction:		Visibility (RVR):	
Altimeter Setting:		Visibility (RVV):	
Precipitation and Obscuration:			
Departure Point:	Salem, IN (I83)	Type of Flight Plan Filed:	None
Destination:	Salem, IN (I83)	Type of Clearance:	None
Departure Time:	EDT	Type of Airspace:	

Airport Information

Airport:	Salem Municipal Airport (I83)	Runway Surface Type:	Asphalt
Airport Elevation:	822 ft	Runway Surface Condition:	Dry
Runway Used:	10	IFR Approach:	None
Runway Length/Width:	2738 ft / 50 ft	VFR Approach/Landing:	Traffic Pattern

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	Mitchell F Gallo	Adopted Date:	06/11/2009
Additional Participating Persons:			
Publish Date:	06/11/2009		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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