



Location: Murfreesboro, Tennessee Accident Number: ERA19LA028

Date & Time: October 28, 2018, 12:10 Local Registration: N5624S

Aircraft: Beech V35 Aircraft Damage: Substantial

Defining Event: Loss of control in flight **Injuries:** 1 Serious

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The private pilot was conducting a cross-country, personal flight. He reported that, during approach to the destination airport, he had to manually extend the landing gear because he noticed the "down" light was not green. A witness who was in the airport terminal reported that he heard the pilot announce on the CTAF that his airplane was having "amperage" issues and that he might have to land with no radios. The pilot then asked him to confirm that the landing gear were extended. The witness went out to the taxiway and checked the landing gear status as the pilot conducted a low pass over the runway. The landing gear was not extended fully. The pilot stated that he attempted to go around but that the airplane was "sucked down" into trees by "a very strong wind" as the airplane proceeded beyond the departure end of the runway.

The pilot reported that there were no preaccident mechanical malfunctions or failures with the airframe or engine that would have precluded normal operation. Examination of the wreckage revealed that the alternator switch was in the "off" position, which would have prevented the battery from charging and likely led to there being insufficient battery power to extend the landing gear.

The airport's automated weather observation station reported that, about the time of the accident, there was a right quartering headwind at 14 knots, gusting to 19 knots.

Probable Cause and Findings

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

The pilot's failure to maintain airplane control while maneuvering at low altitude in gusting wind conditions.

Findings

Personnel issues Aircraft control - Pilot

Aircraft Altitude - Not attained/maintained

Environmental issues Gusts - Effect on operation

Page 2 of 6 ERA19LA028

Factual Information

History of Flight

Maneuvering-low-alt flying Miscellaneous/other

Maneuvering-low-alt flying Loss of control in flight (Defining event)

Uncontrolled descent Collision with terr/obj (non-CFIT)

On October 28, 2018, about 1210 central daylight time, a Beech V35, N5624S, was substantially damaged when it impacted trees while maneuvering at low altitude near Murfreesboro Municipal Airport (MBT), Murfreesboro, Tennessee. The private pilot was seriously injured. The airplane was privately owned and operated by the pilot under the provisions of Title 14 Code of Federal Regulations Part 91. Visual meteorological conditions prevailed and no flight plan was filed for the personal flight that originated from Gatlinburg-Pigeon Forge Airport (GKT), Sevierville, Tennessee, about 1000.

The pilot reported that he attempted to extend the landing gear while in the airport traffic pattern at MBT. He then noticed that the green cockpit indicator was not illuminated and manually extended the landing gear. The pilot subsequently requested that personnel on the ground confirm that the landing gear was extended and he performed a low pass over runway 18. The pilot was told that the landing gear were not extended, so he attempted a go-around, but was "sucked down" into trees by a very strong wind. Other than a possible electrical issue, the pilot reported that there were no other preimpact mechanical malfunctions with the airframe or engine.

A witness stated that he and a friend were in the MBT airport terminal building when they heard the pilot announce on the common traffic advisory frequency that his airplane was having "amperage" issues and he might be performing a landing with no radios. The pilot then asked if the witness could visually confirm that the landing gear was extended. The witness agreed and went to a taxiway with a handheld radio while the pilot performed a low pass over runway 18. The witness reported to the pilot that the landing gear was only partially extended. The airplane then proceeded beyond the departure end of the runway, losing altitude, looked like it stalled and descended into trees.

Examination of the wreckage by a Federal Aviation Administration inspector revealed damage to both wings and the fuselage. The inspector noted that the alternator switch was in the off position.

The recorded weather at MBT, at 1215, included wind from 210° at 14 knots, gusting to 19 knots, and a clear sky.

Page 3 of 6 ERA19LA028

Pilot Information

Certificate:	Private	Age:	79,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	December 7, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	November 1, 2017
Flight Time:	2208 hours (Total, all aircraft), 999999 hours (Total, this make and model), 7 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Beech	Registration:	N5624S
Model/Series:	V35 UNDESIGNAT	Aircraft Category:	Airplane
Year of Manufacture:	1966	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	D-8168
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	October 27, 2018 Annual	Certified Max Gross Wt.:	3400 lbs
Time Since Last Inspection:	2 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	4603 Hrs as of last inspection	Engine Manufacturer:	Continental
ELT:	C91 installed, activated, did not aid in locating accident	Engine Model/Series:	10-520
Registered Owner:		Rated Power:	285 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Page 4 of 6 ERA19LA028

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	MBT,614 ft msl	Distance from Accident Site:	5 Nautical Miles
Observation Time:	12:15 Local	Direction from Accident Site:	360°
Lowest Cloud Condition:	Clear	Visibility	9 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	14 knots / 19 knots	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	210°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.92 inches Hg	Temperature/Dew Point:	21°C / 13°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	Sevierville, TN (GKT)	Type of Flight Plan Filed:	None
Destination:	Murfreesboro, TN (MBT)	Type of Clearance:	None
Departure Time:	10:00 Local	Type of Airspace:	

Airport Information

Airport:	Murfreesboro Municipal Airport MBT	Runway Surface Type:	Asphalt
Airport Elevation:	614 ft msl	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	4753 ft / 100 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious	Latitude, Longitude:	35.878612,-86.377502(est)

Page 5 of 6 ERA19LA028

Administrative Information

Investigator In Charge (IIC): Gretz, Robert

Additional Participating Persons: Michael Salas; FAA/FSDO; Nashville, TN

Original Publish Date: April 20, 2020

Note: The NTSB did not travel to the scene of this accident.

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=98550

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

Page 6 of 6 ERA19LA028