

Aviation Investigation Final Report

Location:	Gulf Shores, Alabama	Accident Number:	ERA21LA216
Date & Time:	May 13, 2021, 17:50 Local	Registration:	N5170K
Aircraft:	Cessna 172	Aircraft Damage:	Substantial
Defining Event:	Loss of control in flight	Injuries:	3 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The flight instructor and student pilot were approaching the runway for landing. The flight instructor described that during the landing flare, the airplane drifted to the left of the runway centerline, and as the student attempted to apply corrective control inputs, the flight instructor told the student to abort the landing. After the student hesitated, the flight instructor took control of the airplane while it was "...in a nose high attitude, slow and banked left." The flight instructor increased engine power to full, retracted the flaps to 20 degrees, but noted that the airplane was slow and struggling to climb. The flight instructor then lost directional control of the airplane and elected to continue straight ahead and land. The airplane came to rest in a grassy area off the left side of the runway and the fuselage and wings were substantially damaged. The flight instructor stated that there were no mechanical malfunctions or failures of the airplane that would have precluded normal operation.

Probable Cause and Findings

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

The flight instructor's delayed remedial action, which resulted in a loss of control during an attempted go-around.

Findings

Personnel issues	Delayed action - Instructor/check pilot	
Aircraft	Directional control - Not attained/maintained	
Personnel issues	Aircraft control - Instructor/check pilot	

Factual Information

History of Flight

Approach-VFR go-around	Loss of control in flight (Defining event)	
Landing-flare/touchdown	Abnormal runway contact	

Flight instructor Information

Certificate:	Commercial; Flight instructor	Age:	25,Male
Airplane Rating(s):	Single-engine land; Single-engine sea	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	
Medical Certification:	Class 1 Without waivers/limitations	Last FAA Medical Exam:	March 15, 2019
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	February 21, 2021
Flight Time:	1244 hours (Total, all aircraft), 604 hours (Total, this make and model), 1207 hours (Pilot In Command, all aircraft), 230 hours (Last 90 days, all aircraft), 45 hours (Last 30 days, all aircraft)		

Student pilot Information

Certificate:	None	Age:	23,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	None	Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	3 hours (Total, all aircraft), 3 hours (Total, this make and model)	

Passenger Information

Certificate:		Age:	Male
Airplane Rating(s):		Seat Occupied:	Rear
Other Aircraft Rating(s):		Restraint Used:	Lap only
Instrument Rating(s):		Second Pilot Present:	Yes
Instructor Rating(s):		Toxicology Performed:	
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N5170K
Model/Series:	172 N	Aircraft Category:	Airplane
Year of Manufacture:	1980	Amateur Built:	
Airworthiness Certificate:	Normal; Utility	Serial Number:	17273997
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	April 8, 2021 100 hour	Certified Max Gross Wt.:	2550 lbs
Time Since Last Inspection:	53 Hrs	Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:	C126 installed, activated, did not aid in locating accident	Engine Model/Series:	0-360-A4M
Registered Owner:	SKYWARRIOR FLIGHT TRAINING INC	Rated Power:	180 Horsepower
Operator:	SKYWARRIOR FLIGHT TRAINING INC	Operating Certificate(s) Held:	Pilot school (141)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KJKA,16 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	17:55 Local	Direction from Accident Site:	92°
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:	Broken / 3800 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	3 knots / None	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	20°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.14 inches Hg	Temperature/Dew Point:	23°C / 14°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	Fairhope, AL (CQF)	Type of Flight Plan Filed:	None
Destination:	Gulf Shores, AL	Type of Clearance:	None
Departure Time:	16:50 Local	Type of Airspace:	

Airport Information

Airport:	JACK EDWARDS NTL JKA	Runway Surface Type:	Asphalt
Airport Elevation:	17 ft msl	Runway Surface Condition:	Dry
Runway Used:	09/27	IFR Approach:	None
Runway Length/Width:	6962 ft / 100 ft	VFR Approach/Landing:	Touch and go;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	30.291095,-87.675045(est)

Administrative Information

Investigator In Charge (IIC):	Monville, Timothy
Additional Participating Persons:	Kevin Atkins; FAA/FSDO; Birmingham, AL
Original Publish Date:	August 20, 2021
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=103085

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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.