



Aviation Investigation Final Report

Location:	Kansas City, Missouri	Accident Number:	CEN23LA196
Date & Time:	May 22, 2023, 09:47 Local	Registration:	N227XY
Aircraft:	Piper PA-28-181	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The student pilot was performing his seventh solo takeoff, when the tower controller cleared him for takeoff and told him to expedite due to other traffic. He added full throttle and looked down to check his airspeed; however, when he looked back up to the runway the airplane was left of the runway centerline. The student pilot applied right rudder and the airplane veered to the right. He then removed the right rudder input and the airplane “darted” to the left, exited the runway, and impacted a ditch and a runway sign. The airplane came to rest in the grass alongside of the runway. The airplane sustained substantial damage to the left and right wings. The student pilot reported no preaccident mechanical failures or malfunctions 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 student pilot's failure to maintain directional control during takeoff.

Findings

Aircraft	Directional control - Not attained/maintained
Personnel issues	Aircraft control - Student/instructed pilot

Factual Information

History of Flight

Takeoff	Loss of control on ground (Defining event)
Takeoff	Runway excursion

Pilot Information

Certificate:	Student	Age:	36,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 1 Without waivers/limitations	Last FAA Medical Exam:	September 19, 2022
Occupational Pilot:	No	Last Flight Review or Equivalent:	May 22, 2023
Flight Time:	43 hours (Total, all aircraft), 43 hours (Total, this make and model), 43 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N227XY
Model/Series:	PA-28-181	Aircraft Category:	Airplane
Year of Manufacture:	2022	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	2881571
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	May 8, 2023 100 hour	Certified Max Gross Wt.:	2550 lbs
Time Since Last Inspection:	60.6 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	652.3 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	C126 installed, not activated	Engine Model/Series:	IO360-B4A
Registered Owner:	MERIDIAN AIRCRAFT LLC	Rated Power:	180 Horsepower
Operator:	ATP Flight School	Operating Certificate(s) Held:	Pilot school (141)
Operator Does Business As:	N/A	Operator Designator Code:	N/A

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KMKC, 742 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	09:45 Local	Direction from Accident Site:	165°
Lowest Cloud Condition:	Few / 5500 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.1 inches Hg	Temperature/Dew Point:	20°C / 13°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Kansas City, MO	Type of Flight Plan Filed:	None
Destination:	Kansas City, MO	Type of Clearance:	VFR
Departure Time:		Type of Airspace:	Class D

Airport Information

Airport:	CHARLES B WHEELER DOWNTOWN MKC	Runway Surface Type:	Concrete
Airport Elevation:	756 ft msl	Runway Surface Condition:	Dry
Runway Used:	19	IFR Approach:	None
Runway Length/Width:	6827 ft / 150 ft	VFR Approach/Landing:	None

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	Latitude, Longitude:	39.131738,-94.590283

Administrative Information

Investigator In Charge (IIC):	Brown, Zane
Additional Participating Persons:	Jane Cram ; FAA KC FSDO; Kansas City, MO
Original Publish Date:	July 7, 2023
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=192224

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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](#).