



National Transportation Safety Board Aviation Accident Data Summary

Location:	Riley, KS	Accident Number:	CEN12CA003
Date & Time:	10/01/2011, 1710 CDT	Registration:	N2417T
Aircraft:	SADLER TERRY RANS S-7 COURIER	Injuries:	1 Serious, 1 Minor
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot reported that he had finished flying for the day and had turned off the fuel shutoff valve and tied the airplane down. He noticed a family with a 10-year-old boy at the airport and offered to give the boy a ride around the field. The pilot untied the airplane, put the boy in the back seat, started the engine, and taxied to the runway. During takeoff, about 30 feet above ground level, the engine stopped and the airplane impacted the ground and obstructions on the edge of the airport. The impact collapsed the left main landing gear and deformed the forward lower fuselage, causing substantial damage. The pilot reported that he had failed to complete a preflight cockpit check and did not turn on the fuel shutoff valve. In addition, the pilot reported that shoulder harnesses were installed and available but were not worn.

Flight Events

Prior to flight - Aircraft inspection event
Prior to flight - Cabin safety event
Takeoff - Fuel starvation
Takeoff - Loss of engine power (total)
Landing - Off-field or emergency landing
Landing - Collision with terr/obj (non-CFIT)
Landing - Nose over/nose down

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:
A total loss of engine power during takeoff due to fuel starvation as a result of the pilot's inadequate preflight inspection and failure to ensure that the fuel shutoff valve was turned on before departure.

Findings

Aircraft-Aircraft systems-Fuel system-Fuel selector/shutoff valve-Not used/operated - C
Aircraft-Aircraft systems-Equipment/furnishings-Passenger compartment equip-Not used/operated
Personnel issues-Action/decision-Action-Forgotten action/omission-Pilot - C
Personnel issues-Task performance-Inspection-Preflight inspection-Pilot - C

Pilot Information

Certificate:	Private; Sport Pilot	Age:	69
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	(Estimated) 900 hours (Total, all aircraft), 104 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	SADLER TERRY	Registration:	N2417T
Model/Series:	RANS S-7 COURIER	Engines:	1 Reciprocating
Operator:	On file	Engine Manufacturer:	ROTAX
Air Carrier Operating Certificate:	None	Engine Model/Series:	912
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KMHK, 1066 ft msl	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	None
Condition of Light:	Day	Wind Speed/Gusts, Direction:	6 knots, 90°
Temperature:	24° C / -2° C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Riley, KS (1KS3)	Destination:	Riley, KS (1KS3)

Airport Information

Airport:	Leo's Place Airport (1KS3)	Runway Surface Type:	Grass/turf
Runway Used:	11	Runway Surface Condition:	Dry
Runway Length/Width:	1100 ft / 30 ft		

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	Thomas Latson	Adopted Date:	01/18/2012
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=81969		

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