



# Aviation Investigation Final Report

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<b>Location:</b>	Arcola, Texas	<b>Accident Number:</b>	CEN10CA328
<b>Date &amp; Time:</b>	June 16, 2010, 13:00 Local	<b>Registration:</b>	N72EB
<b>Aircraft:</b>	AMERICAN CHAMPION AIRCRAFT 7GCBC	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Instructional		

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## Analysis

Following two successful stop-and-go landings in the tailwheel-equipped airplane, the student pilot departed for his third solo flight around the airport's traffic pattern. While on final approach the student's flight instructor observed from the ground that the airplane appeared to be high and slow and requested via the aircraft radio that the student execute a go-around. The student pilot complied and while he was on the downwind leg of the traffic pattern the flight instructor instructed him to make a full-stop landing. During the landing roll, the student pilot retracted the wing flaps and added engine power as if to takeoff. The flight instructor reminded the student that this was to be a full-stop landing. The student pilot then reduced engine power; however, he also released back pressure on the control stick. As the rudder lost its effectiveness, the student pilot lost directional control and the airplane exited the side of the runway. The airplane impacted a ditch and nosed over, resulting in structural damage to both wings. An examination of the airplane following the accident revealed no preimpact anomalies with the airplane's flight control system.

## 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 of the tailwheel-equipped airplane during the landing roll.

## Findings

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

## Factual Information

### History of Flight

<b>Landing-landing roll</b>	Loss of control on ground (Defining event)
<b>Landing-landing roll</b>	Runway excursion
<b>Landing-landing roll</b>	Collision with terr/obj (non-CFIT)
<b>Landing-landing roll</b>	Nose over/nose down

### Pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	54, Male
<b>Airplane Rating(s):</b>	None	<b>Seat Occupied:</b>	Front
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	March 30, 2010
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	47 hours (Total, all aircraft), 45 hours (Total, this make and model), 23 hours (Last 90 days, all aircraft), 16 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	AMERICAN CHAMPION AIRCRAFT	<b>Registration:</b>	N72EB
<b>Model/Series:</b>	7GCBC	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Aerobatic; Normal	<b>Serial Number:</b>	1211-95
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	May 27, 2010 100 hour	<b>Certified Max Gross Wt.:</b>	1800 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	1624 Hrs at time of accident	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	O-320 SERIES
<b>Registered Owner:</b>	STEARMAN VENTURES LTD	<b>Rated Power:</b>	180 Horsepower
<b>Operator:</b>	STEARMAN VENTURES LTD	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	32°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Arcola, TX (AXH)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Arcola, TX (AXH)	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	13:00 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	Houston Southwest AXH	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>		<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	09	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	5000 ft	<b>VFR Approach/Landing:</b>	Full stop

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	29.506111,-95.476943(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	LeBaron, Timothy
<b>Additional Participating Persons:</b>	Randy Burke; Federal Aviation Administration; Houston, TX
<b>Original Publish Date:</b>	October 21, 2010
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=76366">https://data.nts.gov/Docket?ProjectID=76366</a>

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