



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	McKinney, TX	<b>Accident Number:</b>	CEN11LA142
<b>Date &amp; Time:</b>	01/02/2011, 0900 CST	<b>Registration:</b>	N102PJ
<b>Aircraft:</b>	AMERICAN LEGEND AIRCRAFT CO AL3	<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

The student pilot was performing a landing when the airplane bounced several times before he lost control of the airplane. The airplane veered to the right and departed the runway. As the airplane continued through the grass, the right wing contacted a construction sign and impacted a ditch, coming to rest inverted. An eyewitness reported that the tailwheel never fully contacted the ground prior to departing the runway. No preimpact anomalies were reported by the pilot.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:  
The pilot's loss of directional control during landing.

## Findings

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<b>Aircraft</b>	Directional control - Not attained/maintained (Cause)
<b>Personnel issues</b>	Aircraft control - Pilot (Cause)

## Factual Information

On January 2, 2011, approximately 0900 central standard time, an American Legend Aircraft AL3, N102PJ, impacted an construction sign and nosed over following a runway excursion at the Aero Country Airport (T31), McKinney, Texas. The student pilot was not injured. The airplane sustained substantial crushing damage to the right wing and vertical stabilizer. The aircraft was registered to and operated by Shell Air LLC, Olathe, Kansas, under the provisions of 14 Code of Federal Regulations Part 91 as a local training flight. Visual meteorological conditions prevailed for the flight, which operated without a flight plan. The local flight originated from T31 approximately 0855.

According to a statement provided by the pilot, upon landing at the airport, the airplane bounced several times before he lost control of the airplane. The airplane veered to the right and departed the runway. After departing the runway the airplane's right wing struck a construction sign. The airplane then impacted a ditch and came to rest inverted. The pilot did not report any anomalies with the airplane prior to the accident landing. A certified flight instructor saw the landing and reported that the airplane's tailwheel did not appear to fully contact the ground prior to the airplane departing the runway.

## History of Flight

Landing-landing roll	Loss of control on ground (Defining event) Runway excursion Collision with terr/obj (non-CFIT)
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## Student Pilot Information

Certificate:	Student	Age:	16, Male
Airplane Rating(s):	None	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 3 Without Waivers/Limitations	Last Medical Exam:	07/09/2010
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated)		

## Aircraft and Owner/Operator Information

Aircraft Manufacturer:	AMERICAN LEGEND AIRCRAFT CO	Registration:	N102PJ
Model/Series:	AL3	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Special Light-Sport	Serial Number:	AL-1104
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:		Certified Max Gross Wt.:	1320 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Teledyne Continental
ELT:	Not installed	Engine Model/Series:	O-200
Registered Owner:	SHELL AIR LLC	Rated Power:	100 hp
Operator:	SHELL AIR LLC	Air Carrier Operating Certificate:	None

## Meteorological Information and Flight Plan

Observation Facility, Elevation:	TKI, 585 ft msl	Observation Time:	0953 CST
Distance from Accident Site:	8 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	90°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	0°C / -6°C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	Calm	Visibility (RVR):	
Altimeter Setting:	30.43 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	McKinney, TX (T31)	Type of Flight Plan Filed:	None
Destination:	McKinney, TX (T31)	Type of Clearance:	None
Departure Time:	CST	Type of Airspace:	

## Airport Information

Airport:	Aero Country (T31)	Runway Surface Type:	Asphalt
Airport Elevation:	792 ft	Runway Surface Condition:	
Runway Used:	35	IFR Approach:	None
Runway Length/Width:	4305 ft / 40 ft	VFR Approach/Landing:	Full Stop; Traffic Pattern

## 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		

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Jason T Aguilera	<b>Adopted Date:</b>	10/03/2011
<b>Additional Participating Persons:</b>	James R Minter; FAA FSDO; Dallas, TX		
<b>Publish Date:</b>	10/03/2011		
<b>Investigation Docket:</b>	<a href="http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=78112">http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=78112</a>		

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