



Aviation Investigation Final Report

Location:	Chandler, Arizona	Accident Number:	GAA16CA190
Date & Time:	April 12, 2016, 09:35 Local	Registration:	N501W
Aircraft:	Monocoupe 110	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Flight test		

Analysis

According to the pilot of the tailwheel-equipped airplane, after performing an initial test flight, during the landing roll the airplane rapidly veered right and the left wing struck the ground. The pilot reported that he overcorrected by applying full left rudder and the airplane exited the left side of the runway and nosed over. The pilot affirmed that prior to the flight he performed maintenance on the airplane to include the tail wheel single bungee steering system. The pilot reported that he installed the bungee incorrectly. The airplane sustained substantial both wings, the windshield and the fuselage.

Probable Cause and Findings

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

The pilot's incorrect installation of the tailwheel steering bungee, which resulted in a runway excursion and airplane nose over.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Directional control - Not attained/maintained
Aircraft	Nose/tail landing gear - Incorrect service/maintenance
Personnel issues	Installation - Pilot

Factual Information

History of Flight

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

Pilot Information

Certificate:	Airline transport; Commercial; Flight instructor	Age:	71, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	5-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	June 15, 2015
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	February 2, 2015
Flight Time:	(Estimated) 31500 hours (Total, all aircraft), 150 hours (Total, this make and model), 26000 hours (Pilot In Command, all aircraft), 25 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Monocoupe	Registration:	N501W
Model/Series:	110 Special	Aircraft Category:	Airplane
Year of Manufacture:	1930	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	5W47
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	April 11, 2016 Annual	Certified Max Gross Wt.:	1610 lbs
Time Since Last Inspection:	35 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	733 Hrs as of last inspection	Engine Manufacturer:	WARNER
ELT:	C91A installed, not activated	Engine Model/Series:	R550-3
Registered Owner:	WHITE JAMES L	Rated Power:	185 Horsepower
Operator:	WHITE JAMES L	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KCHD, 1243 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	15:47 Local	Direction from Accident Site:	264°
Lowest Cloud Condition:	Few / 8000 ft AGL	Visibility	30 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/ None
Wind Direction:		Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.07 inches Hg	Temperature/Dew Point:	19°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Chandler, AZ (CHD)	Type of Flight Plan Filed:	None
Destination:	Chandler, AZ (CHD)	Type of Clearance:	None
Departure Time:	09:00 Local	Type of Airspace:	Class D

Airport Information

Airport:	CHANDLER MUNI CHD	Runway Surface Type:	Asphalt
Airport Elevation:	1243 ft msl	Runway Surface Condition:	Dry
Runway Used:	04L	IFR Approach:	None
Runway Length/Width:	4401 ft / 75 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	33.269165,-111.811111(est)

Administrative Information

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Dane L Guynn ; FAA; Scottsdale , AZ
Original Publish Date:	July 14, 2016
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=93002

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