



National Transportation Safety Board Aviation Accident Final Report

Location:	Lubbock, TX	Accident Number:	DFW06CA018
Date & Time:	11/02/2005, 1730 CST	Registration:	N828MC
Aircraft:	Piper PA28A	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None

Flight Conducted Under: Part 91: General Aviation - Instructional

Analysis

The 485-hour flight instructor and the 11-hour student pilot were executing a crosswind landing during a local training flight. Shortly after touch down on Runway 17R, the nose landing gear collapsed, and the airplane began to skid down the runway. While attempting to bring the airplane to a stop, the propeller and left wing contacted the ground. The winds at the time of the mishap were reported from 180 degrees at 11 knots. An examination of the airplane by an Federal Aviation Administration (FAA) inspector revealed that the axle for the nose landing gear was missing and it was later located along the centerline of the runway. The lock nut securing the axle to the landing gear assembly was not located, and it was not determined why the nut was not in place. The last annual inspection was completed on October 24, 2005, about 22.2 hours prior to the mishap. No recent maintenance was reported on the nose landing gear assembly.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's inability to maintain directional control of the airplane while landing due to the separation of the nose landing gear tire assembly.

Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (C) LANDING GEAR,AXLE - NOT SECURED
 2. (C) LANDING GEAR,WHEEL - SEPARATION
 3. DIRECTIONAL CONTROL - NOT POSSIBLE - PILOT IN COMMAND(CFI)
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Occurrence #2: GEAR COLLAPSED
Phase of Operation: LANDING - ROLL

Factual Information

Flight Instructor Information

Certificate:	Flight Instructor; Commercial	Age:	22, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine	Toxicology Performed:	No
Medical Certification:	Class 1 Without Waivers/Limitations	Last Medical Exam:	02/01/2004
Occupational Pilot:		Last Flight Review or Equivalent:	05/01/2005
Flight Time:	485 hours (Total, all aircraft), 400 hours (Total, this make and model), 370 hours (Pilot In Command, all aircraft), 10 hours (Last 90 days, all aircraft), 60 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Student Pilot Information

Certificate:	None	Age:	21, Male
Airplane Rating(s):	None	Seat Occupied:	Left
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:		Last Medical Exam:	
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	Piper	Registration:	N828MC
Model/Series:	PA28A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	28-4615
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	10/01/2005, 100 Hour	Certified Max Gross Wt.:	2400 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	6479.3 Hours	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	O 360 A4A
Registered Owner:	Louis Hilliard	Rated Power:	180 hp
Operator:	Louis Hilliard	Air Carrier Operating Certificate:	None
Operator Does Business As:	Hub City Aviation	Operator Designator Code:	HB3S

Meteorological Information and Flight Plan

Observation Facility, Elevation:	LBB, 3282 ft msl	Observation Time:	1700 CDT
Distance from Accident Site:		Condition of Light:	Day
Direction from Accident Site:		Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	22° C / 0° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	17 knots, 180°	Visibility (RVR):	
Altimeter Setting:	30.1 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:			
Departure Point:	Lubbock, TX	Type of Flight Plan Filed:	None
Destination:	Lubbock, TX	Type of Clearance:	VFR
Departure Time:	CDT	Type of Airspace:	

Airport Information

Airport:	Lubbock International Airport (KLBB)	Runway Surface Type:	Concrete
Airport Elevation:		Runway Surface Condition:	Dry
Runway Used:	17R	IFR Approach:	None
Runway Length/Width:	11500 ft / 150 ft	VFR Approach/Landing:	Full Stop; Traffic Pattern

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None		

Administrative Information

Investigator In Charge (IIC): Frank McGill **Adopted Date:** 07/25/2007

Additional Participating Persons: William J Fitzgerald; Lubbock, Texas, Flight Standards

Publish Date:

Note: This accident report documents the factual circumstances of this accident as described to the NTSB.

Investigation Docket: NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov, or at 800-877-6799. Dockets released after this date are available at <http://dms.nts.gov/pubdms/>.

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