



# Aviation Investigation Final Report

<b>Location:</b>	Inverness, Florida	<b>Accident Number:</b>	NYC08CA190
<b>Date &amp; Time:</b>	March 21, 2008, 12:00 Local	<b>Registration:</b>	N730FT
<b>Aircraft:</b>	Piper PA-44-180	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Hard landing	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Instructional		

## Analysis

During taxi, the "gear unsafe" light illuminated and would not extinguish. After the unsafe indication was reported to the operator, maintenance personnel discovered that the nose landing gear support structure including both the left and right gear well webs, were substantially damaged. According to the check pilot of a previous flight, he was giving a flight examination for a multiengine rating when during a landing, the student pilot landed hard and the right main landing gear tire "burst." The student and check pilot were unable to maintain directional control, the airplane departed the right side of the runway and the nose landing gear "dug in to the soft ground." A company mechanic replaced the right main landing gear tire as it "blew on landing." The right main landing gear was inspected after the runway excursion; however, no record of the nose gear being inspected was discovered.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The student pilot's improper landing flare and the flight examiner's inadequate remedial action.

## Findings

<b>Aircraft</b>	Landing flare - Incorrect use/operation
<b>Personnel issues</b>	Delayed action - Designated examiner
<b>Environmental issues</b>	(general) - Not specified



## Factual Information

### History of Flight

<b>Landing-flare/touchdown</b>	Hard landing (Defining event)
<b>Landing-landing roll</b>	Loss of control on ground
<b>Landing-landing roll</b>	Collision with terr/obj (non-CFIT)

### Student pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	27,Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 With waivers/limitations	<b>Last FAA Medical Exam:</b>	October 1, 2007
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	71 hours (Total, all aircraft), 5 hours (Total, this make and model)		

### Check pilot Information

<b>Certificate:</b>	Airline transport; Commercial; Foreign; Private	<b>Age:</b>	52,Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Right
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 With waivers/limitations	<b>Last FAA Medical Exam:</b>	October 1, 2007
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	8400 hours (Total, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Piper	<b>Registration:</b>	N730FT
<b>Model/Series:</b>	PA-44-180	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	447995190
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	April 1, 2008 100 hour	<b>Certified Max Gross Wt.:</b>	3800 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>	5953 Hrs as of last inspection	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-360-E1A6D
<b>Registered Owner:</b>	Abraxas Aircraft Inc.	<b>Rated Power:</b>	180 Horsepower
<b>Operator:</b>	Orlando Flight Training	<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>	BKV, 76 ft msl	<b>Distance from Accident Site:</b>	22 Nautical Miles
<b>Observation Time:</b>	10:53 Local	<b>Direction from Accident Site:</b>	180°
<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>	8 knots / None	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	80°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.25 inches Hg	<b>Temperature/Dew Point:</b>	21°C / 9°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Kissimmee, FL (ISM )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Inverness, FL (X40 )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>		<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	Inverness Airport X40	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	50 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	01	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3762 ft / 60 ft	<b>VFR Approach/Landing:</b>	Full stop;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 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>	2 None	<b>Latitude, Longitude:</b>	28.806388,-82.317779

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Gunther, Todd
<b>Additional Participating Persons:</b>	Cheryl King; FAA/FSDO; Orlando, FL
<b>Original Publish Date:</b>	September 26, 2008
<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=68064">https://data.nts.gov/Docket?ProjectID=68064</a>

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