



# Aviation Investigation Final Report

<b>Location:</b>	OPA LOCKA, Florida	<b>Accident Number:</b>	MIA88LA054
<b>Date &amp; Time:</b>	December 5, 1987, 11:40 Local	<b>Registration:</b>	N317L
<b>Aircraft:</b>	CESSNA 310F	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	3 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Instructional		

## Analysis

THE PLT STATED THAT HE HAD MADE THREE TOUCH & GO LANDINGS & ON THE FOURTH LANDING, WHILE ON ROLLOUT, THE LEFT MAIN GEAR COLLAPSED & THE ACFT SLID TO A STOP ON THE RUNWAY. POST CRASH EXAMINATION OF THE LANDING GEAR REVEALED THAT THE LEFT MAIN GEAR DOWNLOCK ROD BROKE ALLOWING THE GEAR TO COLLAPSE.

## Probable Cause and Findings

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

### Findings

Occurrence #1: GEAR COLLAPSED  
Phase of Operation: LANDING - ROLL

#### Findings

1. (C) LANDING GEAR,GEAR LOCKING MECHANISM - FAILURE,TOTAL

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	27, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	December 4, 1987
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	400 hours (Total, all aircraft), 29 hours (Total, this make and model), 100 hours (Last 90 days, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N317L
<b>Model/Series:</b>	310F 310F	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	3100126
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	5
<b>Date/Type of Last Inspection:</b>	April 10, 1987 Annual	<b>Certified Max Gross Wt.:</b>	6830 lbs
<b>Time Since Last Inspection:</b>	94 Hrs	<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>	4156 Hrs	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	IO-470D
<b>Registered Owner:</b>	AIRWAYS CHARTER INC.	<b>Rated Power:</b>	260 Horsepower
<b>Operator:</b>	AIRWAYS CHARTER, INC.	<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	TMB, 9 ft msl	<b>Distance from Accident Site:</b>	6 Nautical Miles
<b>Observation Time:</b>	11:47 Local	<b>Direction from Accident Site:</b>	180°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	15 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	13 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	320°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	16°C / 6°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>		<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>		<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	10:30 Local	<b>Type of Airspace:</b>	Class E

## Airport Information

<b>Airport:</b>	OPA LOCKA OPF	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	9 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	36R	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	4374 ft / 244 ft	<b>VFR Approach/Landing:</b>	Full stop; Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	2 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	3 None	<b>Latitude, Longitude:</b>	25.909324,-80.269836(est)

## Administrative Information

**Investigator In Charge (IIC):** Hill, Bruce

**Additional Participating Persons:**

**Original Publish Date:** February 14, 1989

**Last Revision Date:**

**Investigation Class:** [Class](#)

**Note:**

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=32104>

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