



# **Aviation Investigation Final Report**

Location: FT.LAUDERDALE, Florida Incident Number: MIA87IA131

Date & Time: April 7, 1987, 17:29 Local Registration: N7665Q

Aircraft: CESSNA 310Q Aircraft Damage: Minor

**Defining Event:** Injuries: 6 None

Flight Conducted Under: Part 135: Air taxi & commuter - Non-scheduled

### **Analysis**

DURING THE LANDING ROLL THE RIGHT MAIN GEAR COLLAPSED. INSPECTION OF THE ACFT BY FAA PERSONNEL REVEALED THAT THIS WAS CAUSED BY A TWISTED TORQUE TUBE WHICH FAILED TO FULLY EXTEND THE GEAR.

### **Probable Cause and Findings**

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

#### **Findings**

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

#### **Findings**

1. (C) LANDING GEAR, MAIN GEAR ATTACHMENT - BENT

2. (C) LANDING GEAR, GEAR LOCKING MECHANISM - FAILURE, PARTIAL

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Occurrence #2: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

#### **Findings**

3. DIRECTIONAL CONTROL - NOT POSSIBLE

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## **Factual Information**

#### **Pilot Information**

Certificate:	Commercial	Age:	37,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	March 4, 1987
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	1800 hours (Total, all aircraft), 1200 hours (Total, this make and model), 1730 hours (Pilot In Command, all aircraft), 250 hours (Last 90 days, all aircraft), 6 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N7665Q
Model/Series:	310Q 310Q	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	310Q0444
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	April 1, 1987 Annual	Certified Max Gross Wt.:	5300 lbs
Time Since Last Inspection:	15 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	4157 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	IO-470-VO
Registered Owner:	EDWARD ROFES	Rated Power:	260 Horsepower
Operator:	RSVP USA,INC.	Operating Certificate(s) Held:	On-demand air taxi (135)
Operator Does Business As:		Operator Designator Code:	RS

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### **Meteorological Information and Flight Plan**

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	FLL ,11 ft msl	Distance from Accident Site:	
Observation Time:	17:33 Local	Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Scattered / 8000 ft AGL	Visibility	7 miles
Lowest Ceiling:	Overcast / 20000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	230°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	18°C / 7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	ELEUTHERA IS. , OF (MYEH)	Type of Flight Plan Filed:	VFR
Destination:		Type of Clearance:	None
Departure Time:	16:05 Local	Type of Airspace:	Class D

### **Airport Information**

Airport:	FT. LAUDERDALE-HOLLYWOOD FLL	Runway Surface Type:	Asphalt
Airport Elevation:	11 ft msl	Runway Surface Condition:	Dry
Runway Used:	27L	IFR Approach:	None
Runway Length/Width:	5266 ft / 100 ft	VFR Approach/Landing:	Full stop;Straight-in

## Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Minor
Passenger Injuries:	5 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	6 None	Latitude, Longitude:	26.090255,-80.150856(est)

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#### **Administrative Information**

Investigator In Charge (IIC):	Monville, Timothy
Additional Participating Persons:	
Original Publish Date:	July 10, 1989
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=31792

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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