

# **Aviation Investigation Final Report**

Location:	ATLANTA, Georgia		Incident Number:	ATL88IA139
Date & Time:	April 11, 1988, 21:35	5 Local	Registration:	N889Z
Aircraft:	BOEING	727-225A	Aircraft Damage:	Minor
Defining Event:			Injuries:	83 None
Flight Conducted Under:	Part 121: Air carrier	- Scheduled		

#### **Analysis**

THE LEFT MLG OUTER CYLINDER MAIN TRUNNION FRACTURED AND SEPARATED WHILE THE AIRPLANE WAS SITTING AT THE GATE, SHORTLY BEFORE THE PLANNED DEPARTURE. SUBSEQUENT METALLURGICAL EXAM OF THE PART REVEALED THAT IT WAS IMPROPERLY OVERHAULED, WHICH SIGNIFICANTLY REDUCED THE LIFE OF THE PART.

#### **Probable Cause and Findings**

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

#### **Findings**

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation: STANDING - PRE-FLIGHT

Findings

1. (C) LANDING GEAR, MAIN GEAR - FRACTURED

2. (C) MAINTENANCE, OVERHAUL - IMPROPER - COMPANY MAINTENANCE PERSONNEL

# **Factual Information**

#### **Pilot Information**

Certificate:	Airline transport	Age:	55,Male
Airplane Rating(s):	Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	June 21, 1988
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	1000 hours (Total, this make and model)		

#### Aircraft and Owner/Operator Information

Aircraft Make:	BOEING	Registration:	N889Z
Model/Series:	727-225A 727-225A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Transport	Serial Number:	21858
Landing Gear Type:	Retractable - Tricycle	Seats:	130
Date/Type of Last Inspection:	Continuous airworthiness	Certified Max Gross Wt.:	172000 lbs
Time Since Last Inspection:		Engines:	3 Turbo fan
Airframe Total Time:	26282 Hrs	Engine Manufacturer:	P&W
ELT:	Installed	Engine Model/Series:	JT8D
Registered Owner:	CONNECTICUT BANK & TRUST CO.	Rated Power:	14500 Lbs thrust
Operator:	EASTERN AIRLINES INC	Operating Certificate(s) Held:	Flag carrier (121)
Operator Does Business As:	EASTERN AIRLINES	Operator Designator Code:	EALA

#### Meteorological Information and Flight Plan

Conditions at Assident Citer		Opendition of Links	Night (dog)
Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Night/dark
Observation Facility, Elevation:	ATL ,1026 ft msl	Distance from Accident Site:	
Observation Time:	19:50 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 500 ft AGL	Visibility	5 miles
Lowest Ceiling:	Overcast / 2000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	11 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	80°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	12°C / 11°C
Precipitation and Obscuration:	N/A - None - Fog		
Departure Point:		Type of Flight Plan Filed:	IFR
Destination:	MIAMI , FL (MIA )	Type of Clearance:	None
Departure Time:	00:00 Local	Type of Airspace:	

## **Airport Information**

Airport:	WILLIAM B. HARTSFIELD ATL	Runway Surface Type:	
Airport Elevation:		<b>Runway Surface Condition:</b>	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	None

## Wreckage and Impact Information

Crew Injuries:	7 None	Aircraft Damage:	Minor
Passenger Injuries:	76 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	83 None	Latitude, Longitude:	

#### **Administrative Information**

Investigator In Charge (IIC):	Strickland, Scott
Additional Participating Persons:	JOSEPH EPPERSON; WASHINGTON , DC BILLY HOPPER; WASHINGTON , DC RANDY MARTIN; ATLANTA , GA D H MCCLURE; HERNDON , VA
Original Publish Date:	January 25, 1990
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=7634

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.