

Aviation Investigation Final Report

Location:	LOS ANGELES, Calif	ornia	Incident Number:	LAX89IA315
Date & Time:	August 10, 1989, 12:00 Local		Registration:	N88709
Aircraft:	BOEING	727-224	Aircraft Damage:	Minor
Defining Event:			Injuries:	148 None
Flight Conducted Under:	Part 121: Air carrier	- Scheduled		

Analysis

THE CREW OF CONTINENTAL FLIGHT 1223, A BOEING 727, NOTED A SEVERE FLOOR VIBRATION BETWEEN PASSENGER ROWS 21 AND 26 WHILE AT FL310 AT A CRUISE SPEED OF 0.8 MACH. THE CREW SLOWED THE AIRCRAFT TO 280 KTS IAS, DESCENDED TO FL240 AND PROCEEDED TO LOS ANGELES WITHOUT FURTHER DIFFICULTY. A 15 1/2 INCH CONTINUOUS CRACK WAS FOUND ALONG A ROW OF RIVETS AT THE FLOOR LINE IN THE RIGHT WHEEL WELL. THE CRACK WAS IN CLOSE PROXIMITY TO TWO PREVIOUS REPAIRS. THE CRACKS APPREARED TO BE FROM FATIGUE. THE REPAIR OF THE PANEL INVOLOVED INSTALLATION OF A DOUBLE PLATE OVER THE REGION.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this incident to be: A FATIGUE CRACK IN THE RIGHT GEAR WHEEL WELL.

Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation: CRUISE - NORMAL

Findings 1. (C) FUSELAGE - CRACKED 2. (C) FUSELAGE - FATIGUE

Factual Information

Pilot Information

Certificate:	Airline transport	Age:	51,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):	Airplane multi-engine	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical–w/ waivers/lim	Last FAA Medical Exam:	July 3, 1989
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	19000 hours (Total, all aircraft), 960	0 hours (Total, this make and model)	

Aircraft and Owner/Operator Information

Aircraft Make:	BOEING	Registration:	N88709
Model/Series:	727-224 727-224	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal; Transport	Serial Number:	19800
Landing Gear Type:	Retractable - Tricycle	Seats:	134
Date/Type of Last Inspection:	August 3, 1989 Continuous airworthiness	Certified Max Gross Wt.:	142000 lbs
Time Since Last Inspection:		Engines:	3 Turbo fan
Airframe Total Time:	64986 Hrs	Engine Manufacturer:	P&W
ELT:	Not installed	Engine Model/Series:	JT8D
Registered Owner:	CONTINENTAL AIRLINES INC	Rated Power:	15500 Horsepower
Operator:	CONTINENTAL AIRLINES	Operating Certificate(s) Held:	Flag carrier (121)
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

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Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Unknown	Visibility	
Lowest Ceiling:	Unknown	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:	No Obscuration; No Precip	itation	
Departure Point:	SAN ANTONIO (SAT)	Type of Flight Plan Filed:	IFR
Destination:		Type of Clearance:	IFR
Departure Time:	00:00 Local	Type of Airspace:	Class E

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:	0 ft msl	Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	7 None	Aircraft Damage:	Minor
Passenger Injuries:	141 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	148 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	Mucho, R. gary
Additional Participating Persons:	
Original Publish Date:	August 26, 1992
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=26260

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 <u>here</u>.