

National Transportation Safety Board Aviation Accident Final Report

Location: RAMONA, CA Accident Number: LAX90LA120

Date & Time: 03/16/1990, 1440 PST Registration: N711AG

Aircraft: CESSNA 414 Aircraft Damage: Destroyed

Defining Event: Injuries: 3 None

Flight Conducted Under: Part 91: General Aviation - Personal

Analysis

THE PILOT REPORTED THAT THE AIRCRAFT LANDED NORMALLY AND DURING THE LANDING ROLL A LOUD 'BANG' WAS HEARD AND THE RIGHT MAIN LANDING GEAR COLLAPSED. AN INVESTIGATION WAS CONDUCTED BY AN FAA AIRWORTHINESS INSPECTOR. DURING THIS INVESTIGATION, IT WAS NOTED THAT A WASHER IN THE RIGHT MAIN LANDING GEAR ASSEMBLY FAILED. SUBSEQUENT INVESTIGATION, INCLUDING A REVIEW OF THE AIRCRAFT MAINTENANCE RECORDS, REVEALED THAT CESSNA AIRCRAFT SERVICE INFORMATION LETTER NUMBER ME83-37, DATED NOVEMBER 23, 1983 HAD NOT BEEN COMPLIED WITH. THIS SERVICE LETTER RECOMMENDED REPLACEMENT OF THE ORIGINAL WASHERS WITH A NEW WASHER, CESSNA PART NUMBER S1450-5H12-063. (OLD PART NUMBER 5045018-2)

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: RIGHT MAIN GEAR SCISSORS ASSEMLBY BECOMING DISCONNECTED DURING LANDING ROLL, ALLOWING THE RIGHT RUN LANDING GEAR TO COLLAPSE; SCISSOR ASSEMBLY WASHERS NOT BEING REPLACED AS RECOMMENDED IN CESSNA AIRCRAFT SERVICE BULLETIN ME83-37..

Findings

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

Findings

1. (C) LANDING GEAR, MAIN GEAR STRUT SCISSORS - DISCONNECTED

2. (C) MAINTENANCE, SERVICE BULLETIN/LETTER - NOT PERFORMED - OTHER PERSON

Factual Information

Pilot Information

Certificate:	Commercial	Age:	46, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land; Single-engine Sea	Seat Occupied:	Unknown
Other Aircraft Rating(s):	Helicopter	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalw/waivers/lim.	Last FAA Medical Exam:	04/04/1989
Occupational Pilot:	Last Flight Review or Equivalent:		
Flight Time:	2300 hours (Total, all aircraft), 50 hours (Total, this make and model), 2000 hours (Pilot In Command, all aircraft), 71 hours (Last 90 days, all aircraft), 35 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N711AG
Model/Series:	414 414	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:		Serial Number:	414-0016
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	6825 lbs
Time Since Last Inspection:	0 Hours	Engines:	2 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, activated	Engine Model/Series:	IO-720-1BD
Registered Owner:		Rated Power:	400 hp
Operator:	GRECO, ALEXANDER A	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	30 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-18°C / -18°C
Precipitation and Obscuration:			
Departure Point:	CARLSBAD, CA (CRQ)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1430 PDT	Type of Airspace:	

Airport Information

Airport:	RAMONA AIRPORT (L39)	Runway Surface Type:	Asphalt
Airport Elevation:	1393 ft	Runway Surface Condition:	Dry
Runway Used:	9	IFR Approach:	None
Runway Length/Width:	4000 ft / 150 ft	VFR Approach/Landing:	Full Stop

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Destroyed
Passenger Injuries:	2 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	JAMES	A WALL	Report Date:	03/12/1993
Additional Participating Persons:				
Publish Date:				
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at publing@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.ntsb.gov/pubdms/ .			

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The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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