



Aviation Investigation Final Report

Location: CORONA, California Accident Number: LAX88LA208

Date & Time: June 7, 1988, 13:30 Local Registration: N2710M

Aircraft: PIPER PA-34-200T Aircraft Damage: Substantial

Defining Event: 2 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

COMPANY MAINTENANCE PERSONNEL HAD REPLACED THE NOSE LANDING GEAR ASSY AND HAD CONDUCTED RETRACTION TESTS PRIOR TO RELEASING THE ACFT FOR FLT. AFTER TAKEOFF THE LNDG GEAR WAS RETRACTED AND THE FLT WAS CONDUCTED WITHOUT INCIDENT UNTIL, UPON ENTERING THE TRAFFIC PATTERN FOR LANDING, THE NOSE GEAR FAILED TO EXTEND. THE INSTRUCTOR PILOT ELECTED TO LAND WITH THE MAIN LANDING GEARS ONLY EXTENDED. THE LEFT ENGINE AND PROPELLER WERE SECURED WHILE ON FINAL APPROACH FOR THE LANDING. THE ACFT TOUCHED DOWN ON THE MAIN LANDING GEARS. AS THE ACFT SLOWED DURING THE LNDG ROLL THE NOSE PITCHED DOWN AND THE RIGHT PROPELLER IMPACTED THE GROUND. THE PROPELLER SEPARATED FROM THE ACFT ON GROUND IMPACT AND STRUCK THE RIGHT MAIN LANDING GEAR. THE RIGHT LANDING GEAR WAS SEVERED FROM THE ACFT AND THE ACFT SLID TO A STOP.

Probable Cause and Findings

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

Findings

Occurrence #1: GEAR NOT EXTENDED

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

- 1. (C) LANDING GEAR, NORMAL RETRACTION/EXTENSION ASSEMBLY BINDING (MECHANICAL)
- 2. (C) MAINTENANCE, INSTALLATION IMPROPER COMPANY MAINTENANCE PERSONNEL
- 3. (C) LANDING GEAR, NOSE GEAR ASSEMBLY INOPERATIVE

Occurrence #2: NOSE DOWN

Phase of Operation: LANDING - ROLL

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Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	26,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	November 20, 1987
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	1550 hours (Total, all aircraft), 35 hours (Total, this make and model), 1450 hours (Pilot In Command, all aircraft), 250 hours (Last 90 days, all aircraft), 80 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N2710M
Model/Series:	PA-34-200T PA-34-200T	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	347870091
Landing Gear Type:	Retractable - Tricycle	Seats:	7
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	4500 lbs
Time Since Last Inspection:	52 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	989 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	TSI0-360E
Registered Owner:	SMOLLEN, JAMES F	Rated Power:	200 Horsepower
Operator:	Z-AIR INC.	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	CNO ,650 ft msl	Distance from Accident Site:	5 Nautical Miles
Observation Time:	13:50 Local	Direction from Accident Site:	330°
Lowest Cloud Condition:	Clear	Visibility	13 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	210°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	CORONA , CA (L66)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	13:20 Local	Type of Airspace:	Class G

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Airport Information

Airport:	CORONA L66	Runway Surface Type:	Grass/turf
Airport Elevation:	533 ft msl	Runway Surface Condition:	Dry
Runway Used:	25	IFR Approach:	None
Runway Length/Width:	3200 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

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

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Administrative Information

Investigator In Charge (IIC):	Wall, James	
Additional Participating Persons:	DON BERRY; RIVERSIDE , CA	
Original Publish Date:	January 24, 1990	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=26020	

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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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