



Aviation Investigation Final Report

Location: CHINO, California Accident Number: LAX89LA051

Date & Time: November 19, 1988, 10:30 Local Registration: N1441C

Aircraft: PIPER PA-20 Aircraft Damage: Substantial

Defining Event: 2 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

THE PLT LOST DIRECTIONAL CONTROL OF THE ACFT DURING THE LANDING ROLL AND GROUND LOOPED. THE FLIGHT INSTRUCTOR REPORTED THAT THIS WAS THE FIRST LANDING OF THE DAY AND THAT THEY WERE STAYING IN THE TRAFFIC PATTERN TO PRACTICE TOUCH AND GO LANDINGS ON RWY 26. THE PLT STATED THAT THE TOUCHDOWN AND LANDING WAS STRAIGHT, BUT DURING THE LANDING ROLL THE PLANE STARTED A TURN TO THE LEFT FOLLOWED BY A SHARP TURN TO THE RIGHT. SHE ATTEMPTED TO ADD POWER TO CORRECT, BUT THE ACFT WAS HEADING TOWARDS A CESSNA IN POSITION ON RWY 21 INTERSECTION. THEY CROSSED THE GRASS BETWEEN THE RWYS AND PRIOR TO REACHING RWY 21 THE LEFT GEAR COLLAPSED. INSPECTION REVEALED THE TAILWHEEL STEERING ASSEMBLY DETENT PIN HAD SEPARATED.

Probable Cause and Findings

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

Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

Findings

1. (C) LANDING GEAR, STEERING SYSTEM - DISCONNECTED

Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER Phase of Operation: LANDING - ROLL

Findings
2. TERRAIN CONDITION - BERM

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Factual Information

Pilot Information

Certificate:	Airline transport; Flight instructor	Age:	32,Female
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 single-engine	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	October 17, 1988
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	2700 hours (Total, all aircraft), 10 hours (Total, this make and model), 2500 hours (Pilot In Command, all aircraft), 125 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N1441C
Model/Series:	PA-20 PA-20	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	20-985
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	July 25, 1988 Annual	Certified Max Gross Wt.:	1950 lbs
Time Since Last Inspection:	35 Hrs	Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	0-320
Registered Owner:	INPLANT SUPPORT SYSTEMS INC	Rated Power:	150 Horsepower
Operator:	HILL, BRIAN	Operating Certificate(s) Held:	None
Operator Does Business As:	INPLANT SUPPORT SYSTEMS INC.	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:	
Observation Time:	10:22 Local	Direction from Accident Site:	
Lowest Cloud Condition:	20000 ft AGL	Visibility	50 miles
Lowest Ceiling:	None	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 Precipit	ation	
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	10:24 Local	Type of Airspace:	Class G

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Airport Information

Airport:	CHINO CNO	Runway Surface Type:	Asphalt
Airport Elevation:	650 ft msl	Runway Surface Condition:	Dry
Runway Used:	26	IFR Approach:	None
Runway Length/Width:	3856 ft / 150 ft	VFR Approach/Landing:	Touch and go

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:	33.939334,-117.719688(est)

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Administrative Information

Investigator In Charge (IIC): Isbell, Shelby

Additional Participating
Persons:

Original Publish Date: January 4, 1990

Last Revision Date:
Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=26299

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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