



# **Aviation Investigation Final Report**

Location: OAKLAND, California Accident Number: LAX00LA137

Date & Time: January 26, 2000, 15:35 Local Registration: N228ER

Aircraft: Grumman American AG5B Aircraft Damage: Substantial

**Defining Event:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

The pilot was attempting to practice touch-and-go landings. During the landing attempt, the airplane began to bounce. The pilot said he thought the bouncing would settle down, and instead, it got worse to the point that it broke off the nose gear strut.

### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The inadvertent porpoise and improper remedial action of the pilot during the landing attempt.

### **Findings**

Occurrence #1: NOSE GEAR COLLAPSED

Phase of Operation: LANDING

#### **Findings**

1. (C) PORPOISE/PILOT-INDUCED OSCILLATION - CONTINUED - PILOT IN COMMAND

2. (F) RECOVERY FROM BOUNCED LANDING - NOT FOLLOWED - PILOT IN COMMAND

#### **Factual Information**

On January 26, 2000, at 1535 hours Pacific standard time, a Grumman American AG5B, N228ER, porpoised on landing and subsequently broke off the nose wheel at the Oakland, California, airport. The private pilot, the owner and operator of the aircraft, was not injured. The airplane sustained substantial damage. The purpose of the local area personal flight was to practice touch-and-go landings. The airplane departed from Hayward, California, approximately 1500, and was destined for Oakland when the accident occurred. Visual meteorological conditions prevailed at the time of the accident.

The Federal Aviation Administration notified the Safety Board of the accident on March 27, 2000.

The pilot stated that once he touched down on runway 27L, the airplane began bouncing. He said the bouncing got worse, and finally the nose pitched down and the nose wheel hit the runway, which broke off the nose gear strut.

#### **Pilot Information**

Certificate:	Private	Age:	80,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	May 14, 1999
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	1090 hours (Total, all aircraft), 415 hours (Total, this make and model), 1000 hours (Pilot In Command, all aircraft), 40 hours (Last 90 days, all aircraft), 12 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

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## **Aircraft and Owner/Operator Information**

Aircraft Make:	Grumman American	Registration:	N228ER
Model/Series:	AG5B AG5B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal; Utility	Serial Number:	10119
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	August 1, 1999 Annual	Certified Max Gross Wt.:	2400 lbs
Time Since Last Inspection:	103 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1750 Hrs	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	O-360-A4K
Registered Owner:	OILVER A. BAER	Rated Power:	180 Horsepower
Operator:		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:	OAK ,6 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	15:53 Local	Direction from Accident Site:	360°
<b>Lowest Cloud Condition:</b>	Scattered / 3000 ft AGL	Visibility	10 miles
Lowest Ceiling:	Broken / 16000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	260°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	12°C / 8°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ition	
Departure Point:	HAYWARD , CA (HWD)	Type of Flight Plan Filed:	None
Destination:	(OAK)	Type of Clearance:	VFR
Departure Time:	15:45 Local	Type of Airspace:	Class C

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## **Airport Information**

Airport:	METROPOLITAN OAKLAND INTL OAK	Runway Surface Type:	Asphalt
Airport Elevation:	6 ft msl	Runway Surface Condition:	Dry
Runway Used:	27L	IFR Approach:	None
Runway Length/Width:	6212 ft / 150 ft	VFR Approach/Landing:	Touch and go

# Wreckage and Impact Information

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

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#### **Administrative Information**

Investigator In Charge (IIC):	Childress, Deborah	
Additional Participating Persons:	RICHARD BROWN; OAKLAND , CA	
Original Publish Date:	July 17, 2001	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=51203	

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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