



National Transportation Safety Board Aviation Incident Factual Report

Location:	FORT LAUDERDALE, FL	Incident Number:	MIA98IA001
Date & Time:	10/01/1997, 1615 EDT	Registration:	N168WS
Aircraft:	Grumman G-73	Aircraft Damage:	Minor
Defining Event:		Injuries:	3 None

Flight Conducted Under: Part 91: General Aviation -

On October 1, 1997, about 1615 eastern daylight time, a Grumman G-73, N168WS, registered to Pantechon Aviation Ltd., experienced a collapse of the nose landing gear during the landing roll at the Fort Lauderdale-Hollywood International Airport, Fort Lauderdale, Florida. Visual meteorological conditions prevailed at the time and no flight plan was filed for the 14 CFR Part 91 type-rating flight. The airplane sustained minor damage and the airline-transport rated type rating applicant/pilot, second pilot, and an FAA operations inspector were not injured. The flight originated about 1215 from the same airport.

The pilot-in-command stated that the gear operated normally during the flight which included several gear extensions and retractions. While on final approach, the landing gear indicator indicated that the gear was down which was confirmed once after landing gear extension, and again on short final. After touchdown during the landing roll at an indicated airspeed of about 40 knots, the nose landing gear collapsed.

Post incident trouble shooting of the hydraulic system revealed that the landing gear hydraulic selector valve failed to hold pressure resulting in the collapse of the nose landing gear. Pressure testing of the valve revealed that a poppet valve part number 27580, was bypassing fluid. The O-rings were replaced and the poppet valve continued to bypass fluid.

Pilot Information

Certificate:	Airline Transport; Flight Instructor; Commercial	Age:	35, Male
Airplane Rating(s):	Multi-engine Land; Multi-engine Sea; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	07/25/1997
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	8884 hours (Total, all aircraft), 28 hours (Total, this make and model), 7156 hours (Pilot In Command, all aircraft), 70 hours (Last 90 days, all aircraft), 25 hours (Last 30 days, all aircraft), 8 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Grumman	Registration:	N168WS
Model/Series:	G-73 G-73	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	J-5
Landing Gear Type:	Amphibian	Seats:	12
Date/Type of Last Inspection:	09/05/1997, Annual	Certified Max Gross Wt.:	12500 lbs
Time Since Last Inspection:	35 Hours	Engines:	2 Reciprocating
Airframe Total Time:	7145 Hours	Engine Manufacturer:	P&W
ELT:	Installed, not activated	Engine Model/Series:	R-1340
Registered Owner:	PANTECHNICON AVIATION LTD.	Rated Power:	600 hp
Operator:	PANTECHNICON AVIATION LTD.	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	FLL, 11 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	1548 EDT	Direction from Accident Site:	0°
Lowest Cloud Condition:	Scattered / 2000 ft agl	Visibility	6 Miles
Lowest Ceiling:	Overcast / 20000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	120°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	30° C / 21° C
Precipitation and Obscuration:			
Departure Point:	(FLL)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1215 EDT	Type of Airspace:	Class C

Airport Information

Airport:	FT. LAUDERDALE/HOLLYWOOD (FLL)	Runway Surface Type:	Asphalt
Airport Elevation:	11 ft	Runway Surface Condition:	Dry
Runway Used:	9R	IFR Approach:	
Runway Length/Width:	5276 ft / 100 ft	VFR Approach/Landing:	Full Stop

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	TIMOTHY W MONVILLE
Additional Participating Persons:	BILL WEAVER; FT. LAUDERDALE, FL
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 pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .