



National Transportation Safety Board Aviation Accident Final Report

Location:	Miami, FL	Accident Number:	MIA06CA101
Date & Time:	05/01/2006, 1445 EDT	Registration:	N738DW
Aircraft:	Cessna 172N	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None

Flight Conducted Under: Part 91: General Aviation - Personal

Analysis

The pilot stated that approximately 20 minutes after takeoff he radioed the Kendall-Tamiami Executive Airport Air Traffic Control Tower and requested touch-and-go landings. He reported having difficulty with the aircraft's radio and was cleared for a full stop landing on runway 9R. He further reported, "...the landing seemed normal; the main wheels touch down, but then as I noticed the yoke not releasing from the flare, the aircraft starts to balloon, I add a little power and attempt to land but the yoke was stiff." The airplane ballooned "...a couple of times, hitting the ground hard until I finally stopped." He taxied the airplane to the ramp and secured it where he again noticed the elevator control still stiff. Postaccident examination of the airplane by an airframe and powerplant mechanic revealed impact damage to the firewall, and the control yoke was displaced up and was in contact with an instrument panel support bracket. Examination of the elevator flight control system revealed no evidence of preimpact failure or malfunction.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The improper flare by the pilot resulting in a hard landing and substantial damage to the airplane.

Findings

Occurrence #1: HARD LANDING
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (C) FLARE - IMPROPER - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Private	Age:	23, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	
Medical Certification:	Class 3	Last FAA Medical Exam:	11/01/2005
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	79 hours (Total, all aircraft), 71 hours (Total, this make and model), 24 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N738DW
Model/Series:	172N	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	17269905
Landing Gear Type:	Tricycle	Seats:	
Date/Type of Last Inspection:		Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:		Engine Model/Series:	O-320-H2AD
Registered Owner:	Palmetto Sales & Leasing, Inc.	Rated Power:	
Operator:	ADF Airways Corporation	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:		Visibility	
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:	Miami, FL (KTMB)	Type of Flight Plan Filed:	None
Destination:	Miami, FL (KTMB)	Type of Clearance:	None
Departure Time:		Type of Airspace:	

Airport Information

Airport:	Kendall-Tamiami Executive (KTMB)	Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	9R	IFR Approach:	Unknown
Runway Length/Width:		VFR Approach/Landing:	

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	
Total Injuries:	1 None	Latitude, Longitude:	25.658333, -80.443056

Administrative Information

Investigator In Charge (IIC):	Timothy W Monville	Report Date:	10/03/2006
Additional Participating Persons:	Dave Avery; FAA Flight Standards District Office; Miami, FL		
Publish Date:			
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
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 pubinquiry@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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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](#).