



National Transportation Safety Board Aviation Accident Final Report

Location:	Geneva, OH	Accident Number:	CHI08CA103
Date & Time:	04/03/2008, 1640 EDT	Registration:	N614TB
Aircraft:	Koleno Titan T-51	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The amateur-built airplane was substantially damaged during a forced landing during landing approach. The pilot reported that as he circled the airport, the engine speed went to 6,000 RPM. He stated that he pulled the power back, lowered the landing gear and increased the propeller pitch. He said that the airplane began to stall and he could not maintain altitude. He executed a forced landing to a wetland. The right wing struck the water and broke off spinning the airplane around. Subsequent examination of the controllable pitch propeller revealed that a jack screw pin had sheared allowing the prop to go to a fine pitch setting. One of the blade pitch stops also broke resulting in the blade moving into a reverse pitch position.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The failure of the propeller pitch control mechanism during approach. Contributing to the accident were the inability of the pilot to maintain airspeed and altitude, and the unsuitable terrain.

Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION
Phase of Operation: APPROACH

Findings

1. (C) PROPELLER SYSTEM/ACCESSORIES,PITCH CHANGE MECH - FAILURE

Occurrence #2: FORCED LANDING
Phase of Operation: EMERGENCY DESCENT/LANDING

Findings

2. (F) AIRSPEED - NOT POSSIBLE - PILOT IN COMMAND
3. (F) ALTITUDE - NOT POSSIBLE - PILOT IN COMMAND

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: EMERGENCY DESCENT/LANDING

Findings

4. (F) TERRAIN CONDITION - SWAMPY
5. (F) UNSUITABLE TERRAIN OR TAKEOFF/LANDING/TAXI AREA - ENCOUNTERED - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Private	Age:	35, 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:	
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without Waivers/Limitations	Last Medical Exam:	08/01/2007
Occupational Pilot:		Last Flight Review or Equivalent:	11/01/2007
Flight Time:	1626 hours (Total, all aircraft), 350 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	Koleno	Registration:	N614TB
Model/Series:	Titan T-51	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental	Serial Number:	M05XXXSOHK0087
Landing Gear Type:	Retractable - Tailwheel	Seats:	
Date/Type of Last Inspection:		Certified Max Gross Wt.:	
Time Since Last Inspection:	25 Hours	Engines:	1 Reciprocating
Airframe Total Time:	25 Hours	Engine Manufacturer:	Suzuki
ELT:	Not installed	Engine Model/Series:	H27A
Registered Owner:	On file	Rated Power:	180 hp
Operator:	On file	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:		Observation Time:	
Distance from Accident Site:		Condition of Light:	Day
Direction from Accident Site:		Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	6 knots, 210°	Visibility (RVR):	
Altimeter Setting:		Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Ashtabula, OH (HZY)	Type of Flight Plan Filed:	None
Destination:	Gevena, OH (7D9)	Type of Clearance:	None
Departure Time:	EDT	Type of Airspace:	

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		

Administrative Information

Investigator In Charge (IIC):	John M Brannen	Adopted Date:	06/30/2008
Additional Participating Persons:	Ed Skuza; Cleveland, Ohio		
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 pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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