



National Transportation Safety Board Aviation Accident Final Report

Location:	Thomasville, NC	Accident Number:	ERA09CA040
Date & Time:	11/01/2008, 2135 EST	Registration:	N318CF
Aircraft:	FOX JACK G MONG BIWIN	Aircraft Damage:	Substantial
Defining Event:	Collision with terr/obj (non-CFIT)	Injuries:	1 Minor
Flight Conducted Under:	Part 91: General Aviation - Flight Test		

Analysis

The pilot was making the first of a series of test flights for the new airplane. After engine run-ups and a high speed taxi run, the first takeoff was attempted. The airplane became airborne after a takeoff roll of 1,000 feet. At 30 feet AGL, the airplane would not climb higher or accelerate above 50 knots. Insufficient runway remained to land and the airplane impacted trees in a fully-stalled condition. The pilot reported there was no mechanical malfunction and the ground adjustable propeller was not set to allow the airplane to accelerate.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The builder's failure to set adequate propeller pitch during propeller installation.

Findings

Aircraft	Propeller system - Incorrect service/maintenance (Cause)
Personnel issues	Installation - Owner/builder (Cause)

Factual Information

History of Flight

Takeoff	Collision with terr/obj (non-CFIT) (Defining event)
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Pilot Information

Certificate:	Airline Transport; Commercial; Sport Pilot	Age:	74, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Single
Other Aircraft Rating(s):	Glider	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Sport Pilot Unknown	Last Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	05/16/2008
Flight Time:	21000 hours (Total, all aircraft), 1 hours (Total, this make and model), 12800 hours (Pilot In Command, all aircraft), 18 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	FOX JACK G	Registration:	N318CF
Model/Series:	MONG BIWIN	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental Light Sport	Serial Number:	JGF 813
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	06/21/2008, Unknown	Certified Max Gross Wt.:	650 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	ROTAX
ELT:	Not installed	Engine Model/Series:	447
Registered Owner:	THAYER TERRY W	Rated Power:	40 hp
Operator:	THAYER TERRY W	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:	22° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	Calm	Visibility (RVR):	
Altimeter Setting:		Visibility (RVV):	
Precipitation and Obscuration:			
Departure Point:	Thomasville, NC (N97)	Type of Flight Plan Filed:	None
Destination:	Thomasville, NC (N97)	Type of Clearance:	None
Departure Time:	1730 EST	Type of Airspace:	

Airport Information

Airport:	Hiatt Airport (N97)	Runway Surface Type:	Grass/turf
Airport Elevation:	855 ft	Runway Surface Condition:	Dry
Runway Used:	01	IFR Approach:	None
Runway Length/Width:	2500 ft / 75 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	Ralph E Hicks	Adopted Date:	12/24/2008
Additional Participating Persons:	Tim Haley; FAA/FSDO; Greensboro, NC		
Publish Date:	12/24/2008		
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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