



National Transportation Safety Board Aviation Accident Final Report

Location:	Boca Raton, FL	Accident Number:	ERA12CA198
Date & Time:	03/01/2012, 0745 EST	Registration:	N1701L
Aircraft:	LESTER ROBERT E KR-2	Aircraft Damage:	Substantial
Defining Event:	Loss of engine power (total)	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot stated that he was turning from the downwind to the base leg of the traffic pattern when the airplane's engine had a total loss of power. The pilot trimmed the airplane for its best glide speed and maneuvered the airplane toward the runway. However, the airplane impacted the airport's perimeter fence, which resulted in substantial damage to the right wing. A postaccident examination revealed that the engine air inlet cowling ducting had separated from its attaching material, and the ducting tube slid into the engine air flow control box, blocking the carburetor's air inlet.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The failure of the airplane's engine air inlet system resulting in a total loss of engine power.

Findings

Aircraft	Nacelle/pylon misc structure - Failure (Cause)
Personnel issues	Miscellaneous - Owner/builder

Factual Information

History of Flight

Approach-VFR pattern downwind	Loss of engine power (total) (Defining event)
Emergency descent	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	58, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without Waivers/Limitations	Last Medical Exam:	03/31/2010
Occupational Pilot:	No	Last Flight Review or Equivalent:	04/23/2010
Flight Time:	1568 hours (Total, all aircraft), 260 hours (Total, this make and model), 14 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	LESTER ROBERT E	Registration:	N1701L
Model/Series:	KR-2	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Experimental	Serial Number:	4176
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	12/21/2011, Conditional	Certified Max Gross Wt.:	1200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	259 Hours	Engine Manufacturer:	Corvair
ELT:	C91A installed, activated, did not aid in locating accident	Engine Model/Series:	2700 CC
Registered Owner:	LESTER ROBERT E	Rated Power:	100 hp
Operator:	LESTER ROBERT E	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	BCT, 13 ft msl	Observation Time:	0750 EST
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	0°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	22° C / 19° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	6 knots, 200°	Visibility (RVR):	
Altimeter Setting:	30.11 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Precipitation		
Departure Point:	Boca Raton, FL (BCT)	Type of Flight Plan Filed:	Unknown
Destination:	Boca Raton, FL (BCT)	Type of Clearance:	None
Departure Time:	EST	Type of Airspace:	

Airport Information

Airport:	Boca Raton Airport (BCT)	Runway Surface Type:	Asphalt
Airport Elevation:	13 ft	Runway Surface Condition:	Dry
Runway Used:	23	IFR Approach:	Visual
Runway Length/Width:	6276 ft / 150 ft	VFR Approach/Landing:	Forced 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:	None
Total Injuries:	1 None		

Administrative Information

Investigator In Charge (IIC):	Jose Obregon	Adopted Date:	11/07/2012
Additional Participating Persons:	Gordon E Schmidt; FAA/FSDO; Miramar, FL		
Publish Date:	11/07/2012		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=83000		

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