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Aviation Safety Investigation Report 198700739

Beagle A109

2 August 1987

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NOTE: All air safety occurrences reported to the ATSB are categorised and recorded. For a detailed explanation on Category definitions please refer to the ATSB website at www.atsb.gov.au.

Occurrence Number: 198700739 Occurrence Type: Accident

Location: Streaky Bay SA

Date: 2 August 1987 **Time:** 1600

Highest Injury Level: Nil

Injuries:

	Fatal	Serious	Minor	None
Crew	0	0	1	1
Ground	0	0	0	-
Passenger	0	0	0	0
Total	0	0	0	1

Aircraft Details: Beagle A109 **Registration:** VH-UEM **Serial Number:** B 520

Operation Type: Private (Pleasure)

Damage Level: Substantial

Damage Level: Substantial **Departure Point:** Streaky Bay SA

Departure Time: N/A

Destination: Yeelanna SA

Approved for Release: December 16th 1987

Circumstances:

After application of full throttle during the takeoff run, a severe vibration developed which rapidly stopped the engine from rotating. When the aircraft came to rest the pilot noted that one of the two propeller blades had cleanly separated from its hub. The hub failed as a result of fatigue cracking which extended around approximately half of its circumference. The cracking originated in the root of the blade retention thread and grew progressively over about 850 flights. The cracking was not visible during normal periodic inspections because the hub had been painted to help prevent corrosion.