**Aviation Safety Investigation Report 199504073** 

**Beech Aircraft Corp Baron** 

**04 December 1995** 

## Aviation Safety Investigation Report 199504073

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Investigations commenced on or before 30 June 2003, including the publication of reports as a result of those investigations, are authorised by the Executive Director of the Bureau in accordance with Part 2A of the Air Navigation Act 1920.

Investigations commenced after 1 July 2003, including the publication of reports as a result of those investigations, are authorised by the Executive Director of the Bureau in accordance with the Transport Safety Investigation Act 2003 (TSI Act). Reports released under the TSI Act are not admissible as evidence in any civil or criminal proceedings.

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.

The Bureau did not conduct an on scene investigation of this occurrence. The information presented below was obtained from information supplied to the Bureau.

Occurrence Number: 199504073 Occurrence Type: Accident

**Location:** Broken Hill, Aerodrome

State: NSW Inv Category: 4

**Date:** Monday 04 December 1995

Time: 1045 hours Time Zone CSuT

Highest Injury Level: None

Aircraft Manufacturer: Beech Aircraft Corp

**Aircraft Model:** E55

Aircraft Registration: VH-EZF Serial Number: TE-1156

**Type of Operation:** Charter Passenger

**Damage to Aircraft:** Substantial

**Departure Point:** Broken Hill NSW

**Departure Time:** 0805 CSuT **Destination:** Tilpa NSW

Approved for Release: Tuesday, September 24, 1996

When the pilot selected the landing gear down for landing it failed to extend, and the circuit breaker (CB) popped. He reset it, but each time the gear was selected down it popped again.

He decided to return to Broken Hill because of the emergency services availability. On arrival he attempted to extend the gear manually, but he could not turn the handle. He was now committed to a wheels up landing.

An inspection revealed that the "up" limit microswitch attachment bracket had broken, preventing the lever arm making contact with the microswitch.

This allowed the gearbox motor to continue running when the landing gear was selected up after take-off. The motor then ran the gearbox pinion and segment gears to the end of their travel, forcing and jamming their teeth together. When the gear was selected down the motor was unable to move the pinion gear and stalled, causing the CB to pop.

The jammed pinion and segment gears also prevented the manual extension handle being turned.