

**Aviation Safety Investigation Report
198401407**

Cessna 210M

20 September 1984

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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 CEO of the Bureau in accordance with Part 2A of the Air Navigation Act 1920.

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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: 198401407
Location: Tocumwal NSW
Date: 20 September 1984
Highest Injury Level: Nil
Injuries:

Occurrence Type: Accident

Time: 1743

	Fatal	Serious	Minor	None
Crew	0	0	2	2
Ground	0	0	0	-
Passenger	0	0	0	0
Total	0	0	0	2

Aircraft Details: Cessna 210M
Registration: VH-MGI
Serial Number:
Operation Type: Dual Instruction
Damage Level: Substantial
Departure Point: Tocumwal NSW
Departure Time: 1740
Destination: Tocumwal NSW

Approved for Release: 16th September 1985

Circumstances:

On downwind after the first take-off following a scheduled servicing the pilots were unable to fully extend the landing gear. After all efforts to lower the gear by normal and emergency methods were unsuccessful, the pilot in command carried out a safe landing with the gear retracted. Part of the work carried out during the servicing included the replacement of 'O'-ring seals in the main gear up-lock valve. During re-assembly of this valve, a ball bearing, whose function was to direct fluid to the actuator, was omitted. When the system was activated, insufficient pressure could be generated to fully extend and lock the gear.