

**Aviation Safety Investigation Report
198803435**

Cessna 177RG

25 February 1988

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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: 198803435
Location: Archerfield QLD
Date: 25 February 1988
Highest Injury Level: Nil
Injuries:

Occurrence Type: Accident

Time: 1413

	Fatal	Serious	Minor	None
Crew	0	0	1	1
Ground	0	0	0	-
Passenger	0	0	0	1
Total	0	0	0	2

Aircraft Details: Cessna 177RG
Registration: VH-TXG
Serial Number: 177RG0392
Operation Type: Private
Damage Level: Substantial
Departure Point: Surfers Gardens QLD
Departure Time: 1206
Destination: Maroochydore QLD

Approved for Release: 6 January 1988

Circumstances:

After arrival in the Maroochydore circuit area the pilot was unable to extend the landing gear by normal or emergency methods. A visual check from the control tower confirmed that the wheels were only partially extended. The pilot was advised by the tower controller to divert to Archerfield for a landing. The aircraft was subsequently landed at Archerfield on the grass alongside Runway 10 left. Investigation revealed that the aircraft hydraulic system had been fitted with low pressure hose instead of high pressure hose. The supply hose to the "up" side of the nosewheel actuator had burst under system pressure allowing the hydraulic fluid to escape.

Significant Factors:

It was considered that the following factors were relevant to the development of the accident

1. Inadequate maintenance procedures. An incorrect hose was fitted to the aircraft hydraulic system.
2. The hose burst under normal system pressure allowing fluid to escape and preventing normal or emergency gear extension.
3. The pilot was committed to carry out a gear up landing.