

**Aviation Safety Investigation Report
199601339**

**Amateur Built Aircraft
BD-4**

16 April 1996

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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.

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: 199601339 **Occurrence Type:** Accident
Location: Aldinga, (ALA)
State: SA **Inv Category:** 4
Date: Tuesday 16 April 1996
Time: 1030 hours **Time Zone** CST
Highest Injury Level: None

Aircraft Manufacturer: Amateur Built Aircraft
Aircraft Model: BD-4
Aircraft Registration: VH-XBD **Serial Number:** S-19
Type of Operation: Instructional Dual
Damage to Aircraft: Substantial
Departure Point: Aldinga SA
Departure Time: 1010 CST
Destination: Aldinga SA

Crew Details:

Role	Class of Licence	Hours on Type	Hours Total
Pilot-In-Command	Commercial	14.3	17000

Approved for Release: Tuesday, May 21, 1996

Factual Information

The aircraft had just completed a landing on runway 21 when the nose wheel collapsed. The engine cowl and propeller struck the ground and the aircraft came to a stop.

The aircraft had a history of nose wheel shimmy on takeoff and landing.

Analysis

The manufacturer's design specifies a Cessna 185 tail wheel as the nose wheel for this aircraft type. The nose wheel is fully castoring with no controls and is free to castor during ground operations. A fixed fairing over the nosewheel prevents any pre-flight inspection of the mounting.

This aircraft has experienced two previous nose wheel collapses. The aircraft owner is considering modifications to convert the aircraft to a tail wheel configuration.

