

ACCIDENT

Aircraft Type and Registration:	Shadow Series DD, G-MGTW	
No & Type of Engines:	1 Rotax 582 piston engine	
Year of Manufacture:	1998 (Serial no: 287-DD)	
Date & Time (UTC):	24 October 2016 at 1400 hrs	
Location:	Bridge of Allan, Stirlingshire	
Type of Flight:	Private	
Persons on Board:	Crew - 1	Passengers - None
Injuries:	Crew - None	Passengers - N/A
Nature of Damage:	Distortion and cracking to the main boom, distorted nosewheel and one wooden propeller blade delaminated	
Commander's Licence:	Private Pilot's Licence	
Commander's Age:	65 years	
Commander's Flying Experience:	610 hours (of which 610 were on type) Last 90 days - 14 hours Last 28 days - 7 hours	
Information Source:	Aircraft Accident Report Form submitted by the pilot	

The aircraft is a 'pusher', configured with a rear-mounted engine and propeller. During the departure from a private field, the pilot reported that he raised the nose and the aircraft lifted off; there was then there was a loud bang, a second quieter impact sound and severe vibration. The pilot continued the climb, turned back and landed crosswind in a soft and rutted part of the departure field, using reduced power. The aircraft's g meter registered 2.7g on landing, which the pilot reported as approximately 0.7g higher than previous uneventful rough field landings.

The landing caused damage to the tail boom and nosewheel.

One of the three blades of the wooden propeller showed tip damage and delamination of the leading edge insert. The damage was likely caused by contact with an unidentified object, such as a stone, during or soon after rotation. No damage to the other blades or propeller hub was identified.