

	Standard Modification Issue 1	Mod No. SM 13550
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		Compiled : A Draper
		Approved : F Donaldson

TITLE : Alternative Nose Wheel Fork Spindle and Housing
aka The Derby Mod

APPLICABILITY : All CZAW SportCruisers
Mod Type : At build or retro-fit

1. Introduction

The pivot spindle of the kit supplied nose wheel fork assembly of the CZAW SportCruiser has been found to be subject to early failure and, due to the design, is very difficult to inspect. Airspeed Aviation of Derby has made available a new design of spindle assembly that accepts the existing nose wheel fork assembly and that can be fitted to the existing nose leg.

2. Parts List

Qty	Part No.	Description	Source
1	-	Spindle Housing	Martin Jones Airspeed Aviation Derby Airfield Hilton Road Egginton Derby DE65 6GU Tel 01283 733803
1	-	Castoring pin	
2	-	Phosphor Bronze Bush	
1	-	Friction Disc	
1	-	Pressure Plate	
1	-	Friction Plate	
1	-	Anti-rotation Plate	
2	-	Bellville Washer	
6	AN4-13A	Bolt	
6	AN960-10	Washer	
6	MS21044-N4	Nut	
2	AN4H-5A	Bolt	
2	AN960-416L	Washer	
1	MS17825-8	½" UNF Nyloc Castellated Nut	
1	SP90-E12	3/32" x 1.5" Split Pin	
1	MS15001-4	¼" UNF 90° Grease Nipple	

List of related documents

Document No.	Title / Description	Issue
N/A	Installation instructions for the Airspeed Aviation LAA approved modified nose leg fitting for the SportCruiser	1*
N/A	Nose wheel pivot assembly on SportCruiser – Service and Maintenance Instructions.	1*

*Refer to Airspeed Aviation for latest issue

3. Action

For installation instructions refer to document entitled 'Installation instructions for the Airspeed Aviation LAA approved modified nose leg fitting for the SportCruiser'.

4. Weight and Balance

	Weight (kg)	CG (mm)	Moment
Existing A/C			
Weight Added	0.225	-890	-200.25
Post Mod A/C			

Amend the aircraft weight and balance schedule accordingly.


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5. Flight Test and Special Instructions

1) To enable the revised design standard of the aircraft to be recorded a Mod 1 - Standard Modification Incorporation form (available from the LAA web site) must be completed and submitted to LAA Engineering.

Before the modified aircraft may be flown: -

- 2) An LAA inspector must check for correct assembly and installation of the new spindle assembly onto the nose leg and also for correct anti-shimmy friction torque, completing and initialling each stage on the worksheet that is part of the installation instructions.
- 3) Incorporate maintenance instructions from the document entitled Nose wheel pivot assembly on SportCruiser – Service and Maintenance Instructions into the aircraft’s maintenance schedule.
- 4) With the above found to be satisfactory, a logbook entry must be made, making reference to the modification number, and the inspector must sign a Permit Maintenance Release (PMR).

Approved:	F Donaldson B.Tech C.Eng FRAeS Chief Engineer	Signed:	
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