



Technical Information Notice

TIN No.:	TIN-01-2017	Revision No.:	1	Issue Date:	19/12/2017
Title:	Revised C of G Limits				
Applicability:	All Sherwood Ranger variants				
Information Type(s):	ADVISORY				
Modification:		Airworthiness / MPD		Maintenance / Operation	✓
Parts:		Inspection		Other	
Importance:	ESSENTIAL		HIGH	ROUTINE	✓
Subject Summary / Description of Problem:					
<p>During the structural analysis of the Sherwood Ranger ST for compliance with BCAR Section S ready for submission for Factory Build status it was found that assumptions made by the original designer as to the location of the centre of mass of the P1 and P2 were incorrect. The new arms for the calculation are P1 (rear cockpit) 765mm and P2 (front cockpit) 70mm both aft of datum, the datum being the centreline of the lower front spar at its intersection with the fuselage.</p> <p>With this knowledge TLAC undertook extensive flight testing including a full program of spinning at forward and aft C of G at its Little Snoring facility in mid November 2017 to ascertain the new C of G limits. The OLD limits were 97 - 197mm aft of datum, the NEW limits are 55 - 197mm aft of datum which it completed to the satisfaction of Mr Chris Taylor of Dovetail Aviation Ltd, our nominated flight test organisation.</p>					
Parts / Assemblies Affected:					
N/A					
Action Required:					
Amendment to POH and change of placarding to record the change of C of G limits					
Authorised on Behalf of TLAC:					
Position:	<i>DIRECTOR</i>	Signature:			

In the event of any questions relating to this Information Notice please contact
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