


EASA	AIRWORTHINESS DIRECTIVE
	<p style="text-align: center;">AD No : 2008-0036</p> <p style="text-align: center;">Date: 22 February 2008</p>
No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with the Authority of the State of Registry.	
Type Approval Holder's Name : BAE SYSTEMS (OPERATIONS) LTD	Type/Model designation(s) : Jetstream 4100 series aircraft
TCDS Number : United Kingdom BA 27	
Foreign AD : Not applicable	
Supersedure : None	
ATA 32	Landing Gear – Nose Landing Gear (NLG) Wheel Outer Cone – Inspection
Manufacturer(s):	Jetstream Aircraft Ltd, British Aerospace Regional Aircraft Ltd and British Aerospace (Operations) Ltd
Applicability:	Jetstream 4100 Series aircraft, all models, all serial numbers.
Reason:	<p>A failure mode has been identified that can lead to loss of a nose wheel. Any combination of excessive wear and/or adverse tolerances on the axle inner cone, outer cone or wheel hub splined sleeve cones can result in the loss of the critical gap between the inner flange face of the wheel outer cone and the axle end face. If this gap is lost, it can result in the wheel having free play along the length of the axle. This condition, if not corrected, can result in breakage of the wheel nut lock plate leading to unscrewing of the wheel retention nut and subsequent separation of the nose wheel from the landing gear axle.</p> <p>For the reasons described above, this AD requires repetitive inspections of the nose landing gear to ensure that the wheels are correctly retained and, depending on findings, replacement of worn parts.</p>
Effective Date:	07 March 2008
Compliance:	<p>(1) Within 3 months of the effective date of this AD, inspect the left and right nose wheel attachments to the axle in accordance with paragraph 2 B of BAE Systems (Operations) Ltd Service Bulletin J41-32-086;</p> <p>(2) If the measured gap size is less than 0.002 in (0.05 mm), before next flight, replace all worn parts;</p> <p>(3) If the measured gap size is equal to or more than 0.002 in (0.05 mm), depending on the exact finding, at intervals not to exceed the value as</p>

	<p>indicated in Table 1 of this AD (see below), repeat the inspection of the left and right nose wheel attachments to the axle in accordance with paragraph 2 B of BAE Systems (Operations) Ltd Service Bulletin J41-32-086;</p> <table border="1" data-bbox="528 293 1420 734"> <thead> <tr> <th colspan="2" data-bbox="528 293 1420 342">Table 1</th> </tr> <tr> <th data-bbox="528 342 978 427">Measured Gap Size</th> <th data-bbox="978 342 1420 427">Repeat Inspection Interval in Flight Hours (FH)</th> </tr> </thead> <tbody> <tr> <td data-bbox="528 427 978 512">0.002 in. to 0.005 in. (0.05/0.13mm).</td> <td data-bbox="978 427 1420 512">500 FH</td> </tr> <tr> <td data-bbox="528 512 978 598">More than 0.005 in. to 0.010 in. (0.13/0.25mm).</td> <td data-bbox="978 512 1420 598">1 000 FH</td> </tr> <tr> <td data-bbox="528 598 978 683">More than 0.010 in. to 0.020 in. (0.25/0.51mm).</td> <td data-bbox="978 598 1420 683">2 000 FH</td> </tr> <tr> <td data-bbox="528 683 978 734">More than 0.020 in. (0.51mm).</td> <td data-bbox="978 683 1420 734">3 000 FH</td> </tr> </tbody> </table> <p>Note 1: If, during any repeat inspection as required by paragraph (3) of this AD, the finding has changed to another value (see Table 1 above), adjust the new interval accordingly.</p> <p>(4) If, during any repeat inspection as required by paragraph (3) of this AD, the measured gap size is found to be less than 0.002 in (0.05 mm), before next flight, replace the worn parts.</p> <p>Note 2: Replacement of parts does not constitute terminating action for the inspection requirements of this AD.</p>	Table 1		Measured Gap Size	Repeat Inspection Interval in Flight Hours (FH)	0.002 in. to 0.005 in. (0.05/0.13mm).	500 FH	More than 0.005 in. to 0.010 in. (0.13/0.25mm).	1 000 FH	More than 0.010 in. to 0.020 in. (0.25/0.51mm).	2 000 FH	More than 0.020 in. (0.51mm).	3 000 FH
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Ref. Publications:	<p>BAE SYSTEMS (Operations) Limited Service Bulletin J41-32-086</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>												
Remarks :	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can accept Alternative Methods of Compliance for this AD. 2. This AD was posted on 16 January 2008 as PAD 08-009 for consultation until 13 February 2008. The Comment Response Document can be found at http://ad.easa.europa.eu/ . 3. Enquiries regarding this AD should be referred to the AD Focal Point – Certification Directorate, EASA, E-mail: ADs@easa.europa.eu 4. For any questions concerning the technical content of the requirements in this AD, please contact Project Management Group, Customer Information Department, BAE SYSTEMS (OPERATIONS), Prestwick International Airport, Ayrshire, KA9 2RW, Scotland; Telephone: +44 1292 675207; Fax: +44 1292 675704; E-mail: Rpublications@baesystems.com 												