


<b>EASA</b>	<b>EMERGENCY AIRWORTHINESS DIRECTIVE</b>	
	<b>AD No : 2006-0271-E</b>  <b>Date: 04 September 2006</b>	
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.		
<b>Type Approval Holder's Name :</b> EADS SOCATA		<b>Type/Model designation(s):</b> TBM 700 A & B
TCDS Number: EASA A.010		
Foreign AD Nr: Not applicable		
Supersedure: EASA Emergency AD 2006-0226-E		
<b>ATA 32</b>	<b>Landing Gear – Nose Landing Gear Actuator Hinge Pin - Inspection/Replacement</b>	
Manufacturer:	EADS SOCATA; SOCATA [Aerospatiale]	
Applicability:	All TBM 700 A and B aircraft fitted with Nose Landing Gear part number (P/N) 21130-001-02 whose serial number (S/N) are ranging from B155 to B173 inclusive and S/N EUR 174 to EUR 240 inclusive.	
Reason:	<p>This AD results from one report of a Nose Landing Gear (NLG) hinge pin rupture that causes an uncommanded NLG retraction.</p> <p>Investigations identified the unsafe condition resulting from an incomplete thermal treatment done on three hinge pin batches lowering their mechanical properties with a high risk of deformation under service loads.</p> <p>The AD requirements are first to identify the concerned NLG and second to detect the defective hinge pins installed on aircraft or those held as spare and replace them with new ones.</p> <p>This AD also requires the introduction of interim operational instructions in order to diminish as many as possible stresses on the NLG before the embodiment of the corrective actions.</p> <p>This Airworthiness Directive is issued to extend the landing gear S/N applicability as referenced in EASA Emergency AD 2006-0226-E.</p>	

Effective Date:	06 September 2006
Compliance:	<p>Required as indicated, unless previously accomplished in accordance with EASA Emergency AD 2006-0226-E.</p> <ol style="list-style-type: none"> <li>1. Before next flight after the effective date of this directive, identify the NLG serial number to determine applicability of this AD. If the NLG S/N is not listed in the applicability paragraph of this AD, no further action is required.</li> <li>2. For aircraft with applicable NLG serial number, before next flight after the effective date of this directive, apply the operational procedure as indicated in the paragraph (§) A of the accomplishment instructions of the EADS SOCATA Service Bulletin (SB) N° 70-147. This may be accomplished by inserting a copy of the EADS SOCATA SB N° 70-147 into the Airplane Flight Manual (AFM).</li> </ol> <p><b>Note 1:</b> At this step, one ferry flight is authorized for aircraft fitted with the applicable NLG serial number, to reach an approved Maintenance Centre to check the batch number and to do the pin check.</p> <ol style="list-style-type: none"> <li>3. Identify the Pin batch number as instructed in the § B of the accomplishment instructions of the EADS SOCATA SB N° 70-147.</li> </ol> <p>For aircraft with the correct pin batches numbers, no further action is required. Return the aircraft to service as instructed in the EADS SOCATA SB N° 70-147.</p> <ol style="list-style-type: none"> <li>4. For aircraft with pins from the defective pin batch numbers or for which the batch number is unreadable, do all the actions as instructed in § B 5), C &amp; D of the accomplishment instructions of the EADS SOCATA SB N° 70-147.</li> </ol> <p>4.1 Before next flight, replace any out-of-tolerance pin as instructed in the accomplishment instructions of the EADS SOCATA SB N° 70-147.</p> <p>4.2 Not later than 30 September 2006, replace any pin from the defective batches as instructed in the § C &amp; D of the accomplishment instructions of the EADS SOCATA SB N° 70-147.</p> <p><b>Note 2:</b> Flights with pin from the defective batches numbers but with satisfactory dimensional check, are allowed until 30 September 2006, provided the operational procedure is strictly respected as indicated in the paragraph (§) A of the accomplishment instructions of the EADS SOCATA Service Bulletin (SB) N° 70-147</p> <p><b>Note 3:</b> Until the replacement of pins from the defective batches by new ones and as mentioned in the EADS SOCATA SB, perform a dimensional check on hinge pin after any "Pancake" or "three-point" landing.</p> <ol style="list-style-type: none"> <li>5. As of the effective date of this AD, no person may install, on any EADS SOCATA TBM700 series airplane, NLG actuator hinge pins coming from the three defectives batches identified as EUR BC 21344-000-01, EUR BD 21344-000-01 &amp; EUR BF 21344-000-01 on Nose Landing Gear part number (P/N) 21130-001-02.</li> </ol>
Ref. Publications:	EADS SOCATA Service Bulletin N° 70-147 dated July 2006 or Amendment 1 dated September 2006 or later approved revisions.

Remarks:	<ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated the responsible EASA manager for the related product has the authority to accept Alternative Methods of Compliance (AMOCs) for this AD.</li> <li>2. The safety assessment has requested not to implement the full consultation process and an immediate publication and notification.</li> <li>3. Enquiries regarding this AD should be addressed to the AD Focal Point, Certification Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a></li> <li>4. For any questions concerning the technical content of the requirements in this AD, please contact:   EADS SOCATA - Direction des Services - 65921 Tarbes Cedex 9, France  Tel. : +33 (0)5 62 41 73 00 Fax : +33 (0)5 62 41 76 54   or for the US of A :   SOCATA AIRCRAFT, INC. - North Perry Airport - 7501 South Airport Rd.  Pembroke Pines, Florida 33023 - United States of America  Tel. : 1 (954) 893 1400 Fax : 1 (954) 964 4141</li> </ol>
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