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.

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<tr>
<th>Type Approval Holder’s Name :</th>
<th>Type/Model designation(s):</th>
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<tr>
<td>EADS SOCATA</td>
<td>TBM 700 A &amp; B</td>
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<th>Foreign AD Nr:</th>
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<th>Supersedure:</th>
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**ATA 32**

**Landing Gear – Nose Landing Gear Actuator Hinge Pin - Inspection/Replacement**

**Manufacturer:** EADS SOCATA

**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 B168 to B173 inclusive and S/N EUR 174 to EUR 239 inclusive.

**Reason:** This AD results from one report of a Nose Landing Gear (NLG) hinge pin rupture that causes an uncommanded NLG retraction. 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.

The AD requirements are first to identify the concerned NLG and second to detect the defective hinge pins on aircraft or on shelves and replace them with new ones.

The aim of this AD is also to introduce interim operational instructions in order to diminish as many as possible stresses on the NLG before the embodiment of the corrective actions.

**Effective Date:** 24 July 2006

**Compliance:** The following measures are rendered mandatory from the effective date of this AD, unless previously accomplished:
1. Before further flight, verify the NLG serial number to determine its eligibility to this AD. If the NLG S/N is not listed in the applicability paragraph of this AD, No further action is required.

2. For aircraft with applicable NLG serial number, before further flight 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 can be done by inserting into the AFM, the EADS SOCATA SB N° 70-147.

Note: 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.

3. Identify the Pin batch number as instructed in the § B of the accomplishment instructions of the EADS SOCATA SB N° 70-147.

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.

4. For aircraft with pins from the defective pin batches numbers or for which the batch number is unreadable, do all actions as instructed in the § B 5), C & D of the accomplishment instructions of the EADS SOCATA SB N° 70-147.

Note: 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

Any out-of-tolerance pin should be replaced Prior to next flight, as instructed in the accomplishment instructions of the EADS SOCATA SB N° 70-147.

Any pin from the defective batches, even with satisfactory dimensional check should be replaced by new ones Before 30 September 2006 as instructed in the § C & D of the accomplishment instructions of the EADS SOCATA SB N° 70-147.

Note: 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

5. As of the effective date of this AD, No person shall 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 & EUR BF 21344-000-01 on Nose Landing Gear part number (P/N) 21130-001-02.

or later approved revisions.

Remarks:

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.

2. The safety assessment has requested not to implement the full consultation process and an immediate publication and notification.
3. Enquiries regarding this AD should be addressed to Mr. M. Capaccio, 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: EADS SOCATA - Direction des Services - 65921 Tarbes Cedex 9 – France - Ph.: +33 (0)5 62 41 73 00 ; Fax: +33 (0)5 62 41 76 54
Or for the USA:
SOCATA AIRCRAFT, INC. - North Perry Airport - 7501 South Airport Rd. Pembroke Pines, FL 33023 - United States of America Ph.: +1 (954) 893 1400 ; Fax: +1 (954) 964 4141