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## AIRWORTHINESS DIRECTIVE

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For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.001(1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

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### Airbus Industrie A319, A320 and A321 Series Aeroplanes

**AD/A320/186****Pilot and Co-pilot Powered Seats****13/2005**

**Applicability:** All A318, A319, A320 and A321 series aeroplanes equipped with EADS Sogerma Services powered cockpit seats with part numbers (P/N) as follows:

#### Pilot seats P/N

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| TAAI1-03PE00-01 | TAAI1-03PE02-01 | TAAI2-33PE00-01 |
| TAAI1-03PE00-02 | TAAI1-03PE02-02 | TAAI2-33PE01-01 |
| TAAI1-03PE01-01 | TAAI1-03PE03-01 | TAAI3-03PE00-01 |
| TAAI1-03PE01-02 | TAAI1-03PE03-02 | TAAI3-03PE01-01 |

#### Co-pilot seats P/N

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| TAAI1-03CE00-01 | TAAI1-03CE02-01 | TAAI2-33CE00-01 |
| TAAI1-03CE00-02 | TAAI1-03CE02-02 | TAAI2-33CE01-01 |
| TAAI1-03CE01-01 | TAAI1-03CE03-01 | TAAI3-03CE00-01 |
| TAAI1-03CE01-02 | TAAI1-03CE03-02 | TAAI3-03CE01-01 |

#### Spares kits P/N

|                 |                 |
|-----------------|-----------------|
| TAAI2-426000-03 | TAAI2-426000-04 |
|-----------------|-----------------|

This Directive is not applicable to aircraft equipped with powered cockpit seats P/N TAAI3-03PE00-01, TAAI3-03PE01-01, TAAI3-03CE00-01 or TAAI3-03CE01-01, serial number (S/N) 792 or higher, on which the actuator has not been replaced since delivery.

- Requirement:**
1. Identify the cockpit seats actuator P/N installed on the seats and accomplish any necessary corrective action in accordance with instructions of Sogerma Service Bulletin (SB) TAAI1-25-617. No further action is required for the pilot and co-pilot seats on which the accomplishment of the SB TAAI1-25-617 can be identified.
  2. Cockpit seats actuators P/N 4136290004 and P/N 4136290005 with S/Ns below 5080 must be removed from service.
  3. Spare seats actuators PN 4136290004 and PN 4136290005 with S/Ns below 5080 shall not be re-installed on an aircraft.

**Airbus Industrie A319, A320 and A321 Series Aeroplanes**

AD/A320/186 (continued)

4. SOGERMA Spare Kits P/N TAAI2-426000-03 and P/N TAAI2-426000-04 must be returned to SOGERMA.

*Note: DGAC AD F-2005-164 (EASA Approval 2005-6252) refers.*

Compliance: For Requirement 1 and 2 - No later than 31 May 2010.

For Requirement 3 - After 31 May 2010.

For Requirement 4 - No later than 31 May 2010.

This Airworthiness Directive becomes effective on 22 December 2005.

Background: The Direction Générale de l'Aviation Civile of France has advised that during the overhaul of seats, repair stations have found severe wear of the gear at rotor shaft end on certain actuators. This wear could affect the kinematics of the seat control system and lead to uncommanded pilot seat horizontal movements which could impact on control of the aircraft during take-off and landing.

Analysis has revealed that the hardness characteristics of the rotor shaft of the actuator were not in compliance with the specification. Substantial numbers of actuators are believed to be affected this production issue and the aim of this Directive is to identify them and to remove them from service.



James Coyne  
Delegate of the Civil Aviation Safety Authority

10 November 2005