

AIRWORTHINESS DIRECTIVE

released by DIRECTION GENERALE DE L'AVIATION CIVILE

Inspection and/or modifications described below are mandatory. No person may operate a product to which this Airworthiness Directive applies except in accordance with the requirements of this Airworthiness Directive.

Translation of 'Consigne de Navigabilité' ref. : 2000-237-123(B) R1
In case of any difficulty, reference should be made to the French original issue.

AIRBUS INDUSTRIE

A330 aircraft

PRATT & WHITNEY PW4164, 4168 and 4168A engines -
Thrust reverser locking actuators, pylons and engine mounts (ATA 54, 71, 78)

APPLICABILITY:

AIRBUS INDUSTRIE A330 aircraft models -223, -321, -322 and -323 which have not received all the following modifications or Service Bulletins (SB):

- Modification 46147 (SB A330-54-3016),
- Modification 46948 (SB A330-71-3012 R1), or modification 49419 (SB A330-71-3015),
- Modification 46383 (SB A330-71-3009),
- Modification 47341 (SB A330-78-3011).

REASONS:

Additional tests performed by the engine manufacturer PRATT & WHITNEY have shown that, in case of fan blade out, the induced loads could lead, in the worst case, to a reduced structural integrity of the pylon and/or nacelle and potential risk of inadvertent thrust reversers deployment.

The Revision 1 of this Airworthiness Directive (AD) introduces the modification 49419 (SB A330-71-3015) as an alternate means of compliance to § 3.2.2 (replacement of aft engine mount attach bolts).

It has to be noticed that AD 2001-607(B) requires the replacement of MP159 nuts (SB A330-71-3012 R1) by new design nuts (SB A330-71-3015) not later than August 31, 2002.

COMPLIANCE:

1. Visual inspection of the fan blades:

1.1. Not later than 500 engine hours from the effective date of this AD at original issue, carry out a visual inspection of the fan blades for surface damage and lubricate the fan shrouds in accordance with the instructions given in PRATT & WHITNEY SB PW4G-100-72-149 dated October 31, 1999.

1.2. Repeat the above inspection at interval not exceeding 500 engine hours.

2. Ultra-sonic inspection of the fan blade root attachment area:

Before accumulation of 5000 parts cycles since new or within 500 parts cycles after the effective date of this AD at original issue, whichever occurs later, carry out an ultra-sonic inspection of the fan blade root attachment area in accordance with the instructions given in Pratt & WHITNEY SB PW4G-100-72-150 dated October 31, 1999.

3. Mandatory final fix:

To cancel the inspections defined in the paragraph 1 and 2 of this AD, the following modifications are rendered mandatory unless already embodied on production or accomplished in service by Service Bulletins.

3.1. Not later than March 1st, 2001, replace the thrust reverser locking actuators (four per engine), in accordance with the instructions given in the AIRBUS INDUSTRIE Service Bulletin A330-78-3011.

3.2. Before accumulation of 8000 cycles since new or before August 1st, 2004, whichever occurs first:

3.2.1. Reinforce the primary structure of the engine pylons in accordance with the instructions given in the AIRBUS INDUSTRIE Service Bulletin A330-54-3016.

3.2.2. Install aft mount pylon nuts and bolts in accordance with the instructions given in the AIRBUS INDUSTRIE SB A330-71-3012 R1 (MP159 bolts) or in accordance with the instructions given in the AIRBUS INDUSTRIE SB A330-71-3015 (new design nuts).

Note: The AD 2001-607(B) requires the replacement of MP159 nuts (SB A330-71-3012 R1) by new design nuts (SB A330-71-3015) not later than August 31, 2002.

3.2.3. Install front mount pylon nuts and bolts in accordance with the instructions given in the AIRBUS INDUSTRIE Service Bulletin A330-71-3009.

REF.: PRATT & WHITNEY Service Bulletin PW4G-100-72-149 dated October 31, 1999
PRATT & WHITNEY Service Bulletin PW4G-100-72-150 dated October 31, 1999
AIRBUS INDUSTRIE Service Bulletin A330-54-3016
AIRBUS INDUSTRIE Service Bulletin A330-71-3009
AIRBUS INDUSTRIE Service Bulletin A330-71-3012 R1
AIRBUS INDUSTRIE Service Bulletin A330-78-3011
AIRBUS INDUSTRIE Service Bulletin A330-71-3015
(Any later approved revision of these SB's is acceptable).

This Revision 1 replaces original AD 2000-237-123(B) dated June 14, 2000.

EFFECTIVE DATES :

Original AD : JUNE 24, 2000
Revision 1 : DECEMBER 22, 2001