	AIRWORTHINESS DIRECTIVE No F-2001-528 R2	Distribution: B	Issue date: June 23, 2004	Page : 1/3
Direction générale de l'aviation civile France	This Airworthiness Directive is published by the DGAC : <input checked="checked" type="checkbox"/> on behalf of EASA, the Primary Airworthiness Authority for the affected product. <input type="checkbox"/> as the Registration Airworthiness Authority for the affected aircraft..		<i>Translation of « Consigne de Navigabilité » of same number. In case of difficulty, reference should be made to the French issue.</i>	
GSAC publication	<p align="center">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.</p>			
Corresponding foreign Airworthiness Directive(s): Not applicable		Airworthiness Directive(s) replaced: 2001-528 R1		
Person in charge of airworthiness: AIRBUS SAS		Type(s): A330 aircraft		
Type certificate(s) No. A.004 TCDS No A.004				
ATA chapter: 78	Subject: Exhaust - Thrust reversers - C-Ducts (ROLLS ROYCE TRENT 700 engines)			

1. EFFECTIVITY:

AIRBUS A330 aircraft, models -243, -341, -342 and -343 equipped with ROLLS-ROYCE TRENT 700 engines.

2. REASONS:

The life limits of the thrust reversers C-Ducts given in the Revision 8 of AMM Chapter 05-11-00 Configuration 08 (dated September 15, 1999) are not addressed by the definition of the structural life limits of Safe Life items as defined in Section 9.1 (Life limits/Monitored parts) of the Airworthiness Limitations Section (located in the A340 MPD Section 9) which replaces the aircraft AMM Chapter 05-11.

As a result these life limits are removed from the above documents and integrated into this Airworthiness Directive (AD).

These life limits are due to unexpected high fatigue loads (measured during certification tests) on the hinges integrated into the 12 o'clock beam, which forms the upper extreme edge of the thrust reverser C-Duct.

The aim of this AD is to give the life limits, depending of the modifications applied to the C-Duct.

Revision 1 of this AD defers the accomplishment threshold of the modification to be applied in-service from 6,000 flight cycles (FC) to 6,500 FC.

Revision 2 of this AD is issued to update again the accomplishment threshold from 6,500 FC to 7,200 FC.

3. MANDATORY ACTIONS AND COMPLIANCE TIMES:

The following measures are rendered mandatory from the effective date of this AD at original issue:

3.1. Before they have accumulated 10,000 FC since new, remove from service the following thrust reversers C-Ducts:

PN HDTR3410L,
 PN HDTR3410R,
 PN HDTR3411L,
 PN HDTR3411R,
 PN HDTR3412R,
 PN HDTR3413R.

3.2. Before they have accumulated 10,000 FC since new, remove from service the following thrust reversers C-Ducts:

PN HDTR3414L,
 PN HDTR3416R,
 PN HDTR3417R,

that have been modified in service in accordance with AIRBUS Service Bulletin (SB) A330-78-3010 (or ROLLS-ROYCE SB RB211-78-C899) (mod. 47974) after accumulation of 7,200 FC since new.

3.3. Before they have accumulated 25,000 FC since new, remove from service the following reversers C-Ducts:

PN HDTR3414L,
 PN HDTR3416R,
 PN HDTR3417R,

that have received in production AIRBUS modification 47316, or that have been modified in service in accordance with AIRBUS SB A330-78-3010 (or ROLLS-ROYCE SB RB211-78-C899) prior to accumulation of 7,200 FC since new (mod. 47974).

3.4. Before they have accumulated 25,000 FC since new, remove from service the following reversers C-Ducts (mod. 46879):

PN HDTR3412L,
 PN HDTR3414R.

3.5. The following table gives the demonstrated life limits that are applicable for PN HDTR3413L and HDTR3415R. It is necessary to look after a follow up of the FC accumulated on aircraft by these C-Ducts.


C-Ducts PN	Temporary life limits
HDTR3413L	40,000 FC
HDTR3415R	40,000 FC

4. REFERENCE PUBLICATION:

AIRBUS Service Bulletin A330-78-3010
 (Any later approved revision of this SB is acceptable).

5. EFFECTIVE DATES:

Original issue : December 08, 2001
Revision 1 : August 31, 2002
Revision 2 : July 03, 2004

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6. REMARK:

For questions concerning the technical contents of this AD's requirements, contact:

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7. APPROVAL:

This AD Revision is approved under EASA reference No 2004-6375 dated June 15, 2004.

SUPERSEDED