



CIVIL AVIATION AUTHORITY
CZECH REPUBLIC

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AIRWORTHINESS DIRECTIVE

Number: CAA-AD-101/2002R1

Replaces CAA-AD-101/2002

Date of issue: January 09, 2003

ATR

ATR 42, ATR 72

AIRCRAFT - VERTICAL STABILIZER (ATA 25) - INSPECTION

Applicability: ATR models 42-500 and 72-212A aircraft fitted with modification 4440 (composite vertical fin) except those with the following serial numbers:

- 618 and up for ATR model 42-500,
- 682, 683, 684, 687, 694 and up for ATR model 72-212A.

Effective date: February 20, 2003

Compliance: Required as indicated DGAC AD 2002-506(B) R1.

Remarks: The compliance of this AD must be recorded in Aircraft Logbook, where applicable the requirements of this AD must be integrated into Aircraft Technical Documentation. Address inquiries concerning this AD to: Civil Aviation Authority, Airworthiness Division, Ruzyně Airport, 160 08 Prague 6, Czech Republic, tel.: 420 2 33320922, fax: 420 2 20562270.

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DGAC AD No.: 2002-506(B) R1

ATR

ATR 42 and ATR 72 aircraft

Vertical stabilizer - Fin tip upper closure rib (ATA 55)

1. APPLICABILITY:

ATR models 42-500 and 72-212A aircraft fitted with modification 4440 (composite vertical fin) except those with the following serial numbers:

- 618 and up for ATR model 42-500,
- 682, 683, 684, 687, 694 and up for ATR model 72-212A.

2. REASONS:

Rudder operation difficulties recently occurred on ground on an ATR 42-500. It has been identified that they were created by the interference between the rudder and the vertical fin upper closing rib.

The investigation has showed that the upper closing rib was subject to fatigue cracks induced by installation stress. Those cracks and subsequent part failure have then lead to the interference.

This Airworthiness Directive (AD) requires the repetitive inspection and, if necessary, the repairing of the vertical fin upper closing rib in order to prevent interference between the vertical fin upper closing rib and the rudder horn, which could cause the rudder to jam, and consequent reduced controllability of the aircraft.

The aim of this Revision 1 is to precise the AD applicability field and to introduce the revision 1 of the Service Bulletin (SB) ATR 72-55-1003.

3. COMPLIANCE:

3.1. Within the next 500 hours time-in-service from the effective date of this AD at original issue, perform the inspection of the vertical fin upper closing rib for crack detection and then repair if necessary, according to the instructions given by SB ATR 42-55-0011 (for ATR 42-500 model) and SB ATR 72-55-1003 (for ATR 72-212A model).

3.2. Repeat the actions as described in paragraph 3.1. above at intervals not exceeding 500 hours time-in-service from the last inspection.

This repetitive inspection is mandated until a terminating action is defined depending on the findings of the on-going investigations.

REF.:

- Service Bulletin ATR 42-55-0011 original issue
 - Service Bulletin ATR 72-55-1003 Revision 1
- Any further approved revision of these SB's is acceptable.

This Revision 1 replaces original AD 2002-506(B) issued on October 12, 2002.

EFFECTIVE DATE: OCTOBER 12, 2002

Original issue: OCTOBER 12, 2002

Revision 1: JANUARY 04, 2003

