



CIVIL AVIATION AUTHORITY  
CZECH REPUBLIC  
Airworthiness Division

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## AIRWORTHINESS DIRECTIVE

**Number: CAA-AD-T-083/2003**

Date of issue: October 10, 2003

**ATR**

ATR 42

### AIRCRAFT - MAIN LANDING GEARS - SWINGING LEVER (ATA 32) - INSPECTION/REPLACEMENT

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**Applicability:** ATR 42-200/-300/-320 aircraft models, equipped with main landing gears (MLG) fitted with swinging levers PN D56771 whose serial numbers (SN) are between 115 to 151 inclusive.

**Effective date:** October 02, 2003

**Compliance:** Required as indicated DGAC AD 2003-376(B).

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*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, Ruzyne Airport, 160 08 Prague 6, Czech Republic, tel.: 420 2 33320922, fax: 420 2 20562270.*

**Ing. Pavel MATOUŠEK**  
**Director**

**DGAC AD No.: 2003-376(B)**

**ATR**

**ATR 42 aircraft**

Main Landing Gear - Swinging lever (ATA 32)

**1. APPLICABILITY:**

ATR 42-200/-300/-320 aircraft models, equipped with main landing gears (MLG) fitted with swinging levers PN D56771 whose serial numbers (SN) are between 115 to 151 inclusive.

**2. REASONS:**

The issuance of this Airworthiness Directive (AD) is prompted by a recent event, during which, while the aircraft ATR 42 was lined up for take off, the left MLG swinging lever collapsed at engine power application.

The investigation evidenced a fatigue failure of the swinging lever which was most probably promoted by a pre-existing material defect and identified as an abnormal Silicium concentration in the crack initiation area. Further investigation lead to suspect similar defect on the swinging levers manufactured with the same cast batch.

The actions rendered mandatory by the present AD are intended to prevent a fatigue failure of the MLG swinging levers, included in the suspected batch, which could result in reduced structural integrity and possible collapse of the MLG during ground operating phases.

**3. MANDATORY ACTIONS AND COMPLIANCE TIMES:**

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

3.1. At the first opportunity and no later than October 31, 2003:

For swinging levers PN D56771 fitted on MLG, check if SN are between 115 to 151 inclusive and report findings to the supplier MESSIER-DOWTY to manage the retrofit.

3.2. At the latest on December 31, 2003:

3.2.1. Remove the involved swinging levers and replace them by airworthy ones in accordance with ATR Joint Instructions Card (JIC) 32-11-00 RAI 10030.

3.2.2. Return to MESSIER-DOWTY the removed swinging levers for discard.

**REF.: ATR JIC 32-11-00 RAI 10030.**

**EFFECTIVE DATE: OCTOBER 11, 2003**