

中国民用航空总局



CIVIL AVIATION
ADMINISTRATION OF CHINA

CAAC
适 航 指 令

AIRWORTHINESS DIRECTIVE

本指令根据中国民用航空规章《民用航空器适航指令规定》(CCAR-39)颁发，内容涉及飞行安全，是强制性措施。如不按规定完成，有关航空器将不再适航。

编号：CAD2003-M900-02

修正案号：39-4080

一. 标题： 检查主旋翼叶片紧固螺栓

二. 适用范围：

装有件号为900R3100001-103的主旋翼叶片紧固螺栓，序号为900-00008到900-00114的MD900型直升机。

三. 参考文件：

- 1、FAA 在 2003 年 7 月 2 日颁发的紧急适航指令 2003-14-51；
- 2、MD 直升机服务通告 SB900-092R1，颁发日期：2003 年 6 月 30 日。

四. 原因、措施和规定

为了防止主旋翼叶片紧固螺栓失效，引起主旋翼叶片脱落，造成直升机失控。

除非事先已完成，在本指令生效后，下次飞行前，必须完成附件中FAA紧急适航指令2003-14-51所要求的内容。

完成本指令可采取能确保安全的替代方法或调整完成的时间，但必须得到适航部门的批准。

附件：

EMERGENCY AIRWORTHINESS DIRECTIVE
Aircraft Certification Service

Washington, DC
U.S. Department of Transportation
Federal Aviation Administration
DATE: July 2, 2003

2003-14-51 MD HELICOPTERS, INC.: Docket No. 2003-SW-33-AD.
Supersedes Emergency AD 2003-13-51, Docket No. 2003-SW-27-AD.
Applicability: Model MD900 helicopters, serial number 900-00008
through 900-00114, with main rotor blade retention bolt (bolt),
part number 900R3100001-103, installed, certificated in any
category.

Compliance: Required as indicated, unless accomplished
previously.

To prevent failure of a bolt, loss of a main rotor blade, and
subsequent loss of control of the helicopter, accomplish the
following:

(a) Before further flight, remove, inspect, and reinstall the
bolt in accordance with the Accomplishment Instructions,
paragraph 2.B., of MD Helicopters Service Bulletin SB900-092 R1,
dated June 30, 2003 (SB). If segments do not move freely or a
crack is found, replace the bolt with an airworthy bolt before
further flight.

(b) Thereafter, before each start of the engines, for each bolt
with 400 or more hours time-in-service (TIS) or if the hours TIS
is not available for each bolt, visually check each bolt as
follows:

(1) Check that the position of each installed bolt has not shifted
upward.

(2) Check for a gap between the thrust washer and retainer.

(3) An owner/operator (pilot), holding at least a private pilot
certificate, may perform the visual check required by this
paragraph and must enter compliance into the aircraft
maintenance records in accordance with 14 CFR sections 43.11 and

91.417(a)(2)(v)).

(c) If a bolt has shifted upward or if there is no gap between the thrust washer and retainer (the gap indicates that the O ring is intact), before further flight, inspect the bolt in accordance with the Accomplishment Instructions, paragraph 2.B., of the SB.

(d) After accomplishing paragraph (a) of this AD, thereafter, at intervals not to exceed 6 hours time-in-service, for bolts with 400 or more hours TIS, do a cam lever force inspection on each bolt, without removing the bolt, in accordance with the Accomplishment Instructions, paragraphs 2.B. (3) and 2.B. (6) of the SB.

(e) Within 30 days, for bolts with 400 or more hours TIS, disassemble, inspect, and reinstall each airworthy bolt in accordance with the Accomplishment Instructions, paragraph 2.C. of the SB, except you are not required to report inspection results to MD Helicopters, Inc. If a crack, fretting, or corrosion is found, replace the bolt with an airworthy bolt before further flight.

(f) Before accumulating 400 hours TIS, for bolts with less than 400 hours TIS, disassemble, inspect, and reinstall each airworthy bolt in accordance with the Accomplishment Instructions, paragraph 2.C. of the SB, except you are not required to report inspection results to MD Helicopters, Inc. If a crack, fretting, or corrosion is found, replace the bolt with an airworthy bolt before further flight.

(g) Accomplishing paragraphs (e) or (f) of this AD constitutes terminating action for all of the requirements of this AD.

五. 生效日期: 2003 年 7 月 4 日

六. 颁发日期: 2003 年 7 月 3 日

七. 联系人: 祝海鹰
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