

# PŘÍKAZ K ZACHOVÁNÍ LETOVÉ ZPŮSOBILOSTI

**CAA-AD-T-037/2002**

Nahrazuje CAA-AD-T-027/2002

Datum vydání: 11. března 2002

## VRTULE - LISTY VRTULE - VÝMĚNA

**Týká se:** vrtulí vyrobených firmou Hamilton Sundstrand Corporation (dříve Hamilton Standard Division) typ 568F-1 s nainstalovanými listy vrtule katalogových čísel (P/N) R815505-2 a R815505-3 a výrobních čísel (S/N) FR1698 nebo nižších. Tyto vrtule mohou být nainstalovány na letadlech Aerospatiale ATR 42-400 a -500 a ATR 72, ale nejen na těchto.

**Datum účinnosti:** ihned po obdržení

**Provést v termínech:** Jak je popsáno v FAA E AD 2002-05-51, od data účinnosti tohoto PZZ.

**Postup provedení prací:** Dle v FAA E AD 2002-05-51 (příloha tohoto PZZ).

Poznámky: Provedení tohoto PZZ musí být zapsáno do vrtulové knihy. Případné dotazy týkající se tohoto PZZ adresujte na ÚCL sekce technická - Ing. Stibůrek. Pokud to vyžaduje povaha tohoto PZZ, musí být zapracován do příslušné části dokumentace pro obsluhu, údržbu a opravy letadla. Tento PZZ byl vypracován na základě FAA E AD 2002-05-51, který nahrazuje FAA E AD 2002-04-52.

**Ing. Pavel MATOUŠEK**  
**Ředitel sekce technické**  
**Úřad pro civilní letectví**

## EMERGENCY AIRWORTHINESS DIRECTIVE

**2002-05-51 Hamilton Sundstrand Corporation:** Docket No. 2002-NE-02-AD

### Applicability:

This airworthiness directive (AD) is applicable to Hamilton Sundstrand Corporation (formerly Hamilton Standard Division) model 568F-1 propellers installed with blades, part numbers (P/N's) R815505-2 and R815505-3, that have a serial number (SN) of FR1698 or lower. These propellers are installed on, but not limited to, Aerospatiale ATR 42-400 and -500 and ATR 72 airplanes.

**Note 1:** This AD applies to each propeller identified in the preceding applicability provision, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For propellers that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (i) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if the unsafe condition has not been eliminated, the request should include specific proposed actions to address it.

### Compliance:

Compliance with this AD is required as indicated, unless already done.

To prevent blade failure due to corrosion-induced fatigue, which could result in blade separation and possible loss of airplane control, do the following:

(a) For propeller blades P/N's R815505-2 and R815505-3, replace propeller blades SN FR265 or lower before further flight.

(b) For propeller blades P/N's R815505-2 and R815505-3, installed on ATR 72 and ATR 42-400 airplanes, replace the blade using the SN range and compliance times specified in the following table. After the receipt of this Emergency AD, propeller blades P/N's R815505-2 and R815505-3, with serial numbers in the following table installed on ATR 72 and ATR 42-400 airplanes, may not be installed on any other airplane.

#### **Blade Removal Time Requirements**

<b>If the SN of the propeller blade is -</b>	<b>Then replace the blade by the earlier of -</b>
(1) FR 266 to FR341.	Thirty-six days or 360 flight hours (FH) after receipt of Emergency AD 2002-03-51.
(2) FR 342 to FR428.	Fifty-two days or 520 FH after receipt of Emergency AD 2002-03-51.

(c) For propeller blades P/N's R815505-2 and R815505-3, with SN in the range of FR429 to FR1698, installed on ATR 72 and ATR 42-400 airplanes, after receipt of this Emergency AD replace the blade on or before June 30, 2002.

(d) For propeller blades P/N's R815505-2 and R815505-3, with SN in the range of FR266 to FR1698, installed on ATR 42-500 airplanes, after receipt of this Emergency AD replace the blade on or before December 31, 2002.

(e) After the receipt of this Emergency AD, propeller blades P/N's R815505-2 and R815505-3, with SN in the range of FR266 to FR1698, cannot be installed on any airplane, unless prior to installation, an ultrasonic shear wave inspection of the blade tulip is done in accordance with the Accomplishment Instructions of Hamilton Sundstrand ASB 568F-61-A35, Revision 1, dated March 7, 2002.

(f) Procedures for removing the propeller blade and installing a serviceable blade can be found in Hamilton Sundstrand Maintenance Manual P5206.

(g) Within 50 FH after receipt of this Emergency AD for propeller blades P/N's R815505-2 and R815505-3, that have a SN of FR1698 or lower, perform an ultrasonic shear wave inspection of the blade tulip in accordance with the Accomplishment Instructions of Hamilton Sundstrand ASB 568F-61-A35, Revision 1, dated March 7, 2002, and remove blades with unacceptable indications in accordance with the ASB.

(h) Thereafter, within 50 FH since-last-inspection, for propellers blades P/N's R815505-2 and R815505-3, that have a SN of FR1698 or lower, perform an ultrasonic shear wave inspection of the blade tulip in accordance with the Accomplishment Instructions of Hamilton Sundstrand ASB 568F-61-A35, Revision 1, dated March 7, 2002, and remove blades with unacceptable indications in accordance with the ASB.

#### **Alternative Methods of Compliance**

(i) An alternative method of compliance or adjustment of the compliance time that provides an acceptable level of safety may be used if approved by the Manager, Boston Aircraft Certification Office (ACO). Operators must submit their requests through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, Boston ACO.

**Note 2:** Information concerning the existence of approved alternative methods of compliance with this airworthiness directive, if any, may be obtained from the Boston ACO.

#### **Special Flight Permits**

(j) Special limited flight permits may be issued in accordance with §§ 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) for a nonrevenue flight to a location where the requirements of this AD can be done.

#### **Effective Date**

(k) **Emergency AD 2002-05-51, issued March 7, 2002, becomes effective upon receipt.**

**FOR FURTHER INFORMATION CONTACT:** Frank Walsh, Aerospace Engineer, Boston Aircraft Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803-5299; telephone (781) 238-7158; fax (781) 238-7170.

Issued in Burlington, Massachusetts on March 7, 2002.

Jay J. Pardee,

Manager, Engine and Propeller Directorate,

Aircraft Certification Service.