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LUFTDYKTIGHETSPÅBUD (LDP)

MOTORER

SMA - 1

Med hjemmel i lov av 11. juni 1993 nr. 101 om luftfart, § 15-4 jf. § 4-1 og det vedtak om delegering av myndighet til Luftfartstilsynet av 10. desember 1999 nr. 1273.

2007-014 **"ENGINE CONTROLS - ELECTRONIC CONTROL UNIT - REPLACEMENT**

Påbudet gjelder:

Société de Motorisations Aéronautiques (SMA) motorer av typene SR305-230 og SR305-230-1 som beskrevet i vedlagte kopi av EASA AD 2007-0033.

Påbudet omfatter:

Utfør tiltak som beskrevet i vedlagte kopi av EASA AD 2007-0033.

Anm.: Denne LDP erstatter og opphever EASA Emergency Airworthiness Directive (EAD) 2006-0312-E.

Tid for utførelse:

For punkt 1 og 2 under "Compliance til de tider som er angitt i vedlagt kopi av EASA AD 2007-0033

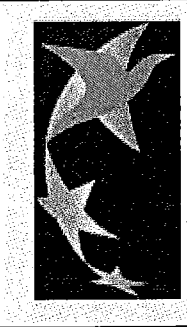
For punktene 3 og 4 under "Compliance" i vedlagt kopi av EASA AD 2007-0033 gjelder fristen 31. mai 2007.

Referanse:

EASA AD 2007-0033.

Gyldighetsdato:

2007-05-02.

EASA	AIRWORTHINESS DIRECTIVE
	**AD No.: 2007-0033** **Date: 13 February 2007**

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.

Type Approval Holder:	**Type/Model Designation(s):**
Société de Motorisations Aéronautiques (SMA)	SR305-230

TC Number: EASA E.076

Foreign AD Number: None

Supersedure: This AD cancels and replaces EASA EAD 2006-0312-E

ATA 76	**Engine Controls – Electronic Control Unit (ECU) – Replacement**
Manufacturer(s):	Société de Motorisations Aéronautiques (SMA)
Applicability:	SMA SR305-230 and SR305-230-1 engines equipped with an ECU having a part number listed below: SF01160009-0, SF01160011-0, SP01160013 SP01160051-0, SP01160051-1, SP01160051-2 SP01160051-3, SP01160051-4, SP01160051-5 SP01160089-0, SP01160089-1, SP01160089-2 These engines are known to be installed on, but not limited to, Cessna 182 series and Reims F182 series aeroplanes.
Reason:	Over a period of time, the alteration of one ECU electronic component can cause a rapid uncontrolled power increase. Several occurrences have already been reported during engine start or during engine warm-up. This condition, if not corrected, could result in the loss of control of the aircraft if the pilot fails to react appropriately by switching to the mechanical backup mode. EASA EAD 2006-0312-E was mandating a temporary corrective action. The present AD retains the requirements of that EAD and in addition requires the replacement of all affected ECU by a new P/N ECU as terminating action. It therefore cancels and replaces EASA EAD 2006-0312-E.
Effective Date:	27 February 2007

Compliance:	1) Before next flight after 16 October 2006 (the effective date of EAD 2006-0312-E), determine the part number (P/N) and the serial number (S/N) of the ECU installed on the aircraft; 2) If the ECU has a P/N listed in the 'Applicability' section of this directive and S/N 131 or below, except S/N 70, 71, 83 and 88, do not operate the engine. Remove and replace the ECU with an ECU P/N SP01160089-3, in accordance with the SMA Service Bulletin in reference. One ferry flight to a location capable of completing the ECU replacement is allowed. The pilot should be ready to react appropriately to a sudden power increase; 3) Not later than March 31, 2007, replace all remaining affected P/N ECU with an ECU P/N SP01160089-3 in accordance with the SMA Service Bulletin in reference; 4) After March 31, 2007, no person may install a spare ECU having a part number as listed in the 'Applicability' section of this directive as a replacement part on any SMA SR305-230 or SR305-230-1 engine.
Ref. Publications:	SMA Service Bulletin No. SB-01-76-005 dated December 15, 2006, or later approved revision
Remarks:	1. If requested and appropriately substantiated, the responsible EASA manager for the related product has the authority to accept Alternative Methods of Compliance (AMOCs) for this AD. 2. This AD was posted on 19 January 2007 as PAD 07-011 for consultation until 12 February 2006. No comments were received during the consultation period. 3. Enquiries regarding this AD should be addressed to the AD Focal Point, Certification Directorate, EASA E-mail: ADs@easa.europa.eu 4. or any questions concerning the technical content of the requirements in this AD, please contact: Société de Motorisations Aéronautiques, 10-12 Rue Didier Daurat, F-18021 Bourges, France – Telephone +33 (0) 2 4867 5600; Fax: +33 (0) 2 4850 0141; E-mail : customer_services@smasr.com

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LUFTDYKTIGHETSPÅBUD (LDP)

MOTORER

SMA - 2

Med hjemmel i lov av 11. juni 1993 nr. 101 om luftfart, § 15-4 jf. § 4-1 og det vedtak om delegering av myndighet til Luftfartstilsynet av 10. desember 1999 nr. 1273.

2007-051 "ENGINE PRIMARY EXHAUST ASSEMBLY - INSPECTION / REPLACEMENT"

Påbudet gjelder:

Société de Motorisations Aéronautiques (SMA) motorer av typene SR305-230 og SR305-230-1 som nærmere beskrevet i vedlagte kopi av EASA AD 2007-0127.

Påbudet omfatter:

Utfør tiltak som beskrevet i vedlagte kopi av EASA AD 2007-0127.

Tid for utførelse:

Til de tider som er beskrevet i vedlagte kopi av EASA AD 2007-0127.

Referanse:

EASA AD 2007-0127.

Gyldighetsdato:

2007-10-24.

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2007-0127 **Date: 07 May 2007**

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.

Type Approval Holder:	**Type/Model Designation(s):**
Société de Motorisations Aéronautiques (SMA)	SR305-230

TC Number: EASA E.076

Foreign AD Number: None

Supersedure: None

ATA 78	**Engine Primary Exhaust Assembly – Inspection and Replacement**
Manufacturer(s):	Société de Motorisations Aéronautiques (SMA)
Applicability:	SMA SR305-230 or SR305-230-1 engines equipped with an exhaust collector assembly having a part number (P/N) SF01080014-0. These engines are known to be installed on, but not limited to, Cessna 182 series and Reims F182 series aeroplanes.
Reason:	Several occurrences of cracks on the exhaust collector assembly have been reported in service. Failure of the engine primary exhaust can lead to a loss of engine manifold pressure and may result in a loss of engine power. In some recent occurrences, cracking has appeared near the weld of the Turbine Inlet Temperature (TIT) probe support. This eventually led to an open hole in the exhaust collector assembly. The resulting loss of engine power was not compatible with the continuation of the flight and an immediate landing was necessary.
Effective Date:	21 May 2007
Compliance:	For SMA SR305-230 or SR305-230-1 engines equipped with an exhaust collector assembly P/N SF01080014-0: 1) At 30 exhaust collector assembly flight hours since new, perform a visual inspection in the area of the TIT probe mount weld for cracks. Cracked exhaust collector assembly is not serviceable and must be replaced before next flight; 2) At 40 exhaust collector assembly flight hours since new, repeat the

	actions in paragraph 1) of the present AD; 3) At 50 exhaust collector assembly hours since new, replace the exhaust collector assembly P/N SF01080014-0 with a serviceable part.
Ref. Publications:	SMA Service Bulletin No. SB-01-78-001 revision 3 dated March 27, 2007, or later approved revision SMA Engine Maintenance Manual as amended by Temporary Revision TR-EMM-78-1 dated March 27, 2007, or later approved revision
Remarks:	1. If requested and appropriately substantiated, the responsible EASA manager for the related product has the authority to accept Alternative Methods of Compliance (AMOC) for this AD. 2. This AD was posted as PAD 07-060 on 12 April 2007 for consultation until 03 May 2007. No comments were received during this period. 3. Enquiries regarding this AD should be addressed to Mr. M. Capaccio, AD Focal Point, Certification Directorate, EASA E-mail: ADs@easa.europa.eu 4. For any questions concerning the technical content of the requirements in this AD, please contact: Société de Motorisations Aéronautiques, 10-12 Rue Didier Daurat, F-18021 Bourges, France - Phone: +33 (0) 2 4867 5600 - Fax: +33 (0) 2 4850 0141 E-mail : customer_services@smasr.com

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