AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2017-02-08 **Effective Date: 6 Mar. 2017**

The following Brazilian Airworthiness Directive (AD), issued by the Agência Nacional de Aviação Civil (ANAC) in accordance with provisions of Chapter IV, Title III of Código Brasileiro de Aeronáutica - Law No. 7,565 dated 19 December 1986 - and Regulamento Brasileiro da Aviação Civil (RBAC) 39, applies to all aircraft registered in the Registro Aeronáutico Brasileiro. No person may operate an aircraft to which this AD applies, unless it has previously complied with the requirements established herein.

AD No. 2017-02-08 - AEROMOT / 39-1410.

APPLICABILITY:

(a) This Airworthiness Directive (AD) applies to AEROMOT – INDÚSTRIA MECÂNICO-METALÚRGICA LTDA model AMT-200, AMT-200S, AMT-200SO, and AMT-300O airplanes, all serial numbers, if equipped with a BRP-Powertrain GmbH & Co KG (formerly Rotax Aircraft Engines) 912 A, 912 S and 914 F series engine with a part number (P/N) 413235 or 413236 cylinder head installed in position 2 or 3.

CANCELLATION / REVISION:

(b) Not applicable.

REASON:

(c) This AD was prompted by design change of the engine cylinder head temperature sensor without a concurrent revision of the engine model designation, the engine part number, or the cockpit indication to the pilot. The sensor now measures the coolant temperature rather than the cylinder head temperature. If the engine coolant temperature with a maximum engine-operating limit of 120 degrees Celsius is displayed on a Cylinder Head Temperature indicator with a typical limit marking greater than 120 degrees Celsius, the pilot will be unable to identify coolant temperature limit exceedances. This could result in loss of coolant, which could cause an inflight engine shutdown and forced landing.

REQUIRED ACTION:

(d) This AD requires inspection to determine the current engine configuration and, depending on findings, modification of the affected airplane.

COMPLIANCE:

(e) Within 12 months after the effective date of this AD, for engines with cylinder heads listed in paragraph (a) of this AD installed on both position 2 and position 3, change the engine model designation on the engine type data plate to include a ``-01" suffix following paragraph 3.1.1) of the

Accomplishment/Instructions in Rotax Aircraft Engines BRP Service Bulletin SB-912-068 and SB-914-049 (co-published as one document), dated April 16, 2015.

(f) Within 12 months after the effective date of this AD, for engines with only one cylinder head listed in paragraph (a) of this AD installed in a position 2 or 3, in order to keep such cylinder installed, you must replace the cylinder head installed on the unchanged position (2 or 3, as applicable) with a cylinder head having a P/N listed in paragraph (a) of this AD, and change the engine model designation on the engine type data plate to include a ``-01" suffix following paragraph 3.1.1) of the Accomplishment/Instructions in Rotax Aircraft Engines BRP Service Bulletin SB-912-068 and SB-914-049 (co-published as one document), dated April 16, 2015.

(g) Before further flight after doing the required actions in paragraphs (d) or (e) of this AD as applicable, modify the airplane and related documentation to indicate a Maximum Coolant Temperature limit of 120 C using ANAC-approved procedures.

Material incorporated by reference in this AD

(h) You must use the following service information to do the actions required by this AD, unless the AD specifies otherwise.

(1) BRP-Powertrain GmbH & CO KG Service Bulletin SB-912-068 and SB-914-049 (co-published as one document), revision one, dated September 9, 2015.

Alternative Means of Compliance (AMOC)

(i) A different method or a different compliance time with the requirements of this AD may be used if requested using the procedures of RBAC 39.19 and approved by the General Manager of ANAC's Aeronautical Product Certification Branch (Gerência-Geral de Certificação de Produtos Aeronáuticos – GGCP).

CONTACT:

For additional technical information, contact:

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APPROVAL:

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NOTE: Original in Portuguese language signed and available in the files of the Aeronautical Products Certification Branch (GGCP) of the National Civil Aviation Agency (ANAC).

Documento assinado eletronicamente por **MARIO IGAWA**, **Gerente-Geral de Certificação de Produtos Aeronáuticos**, em 23/02/2017, às 14:29, conforme horário oficial de Brasília, com fundamento no art. 6º, § 1º, do Decreto nº 8.539, de 8 de outubro de 2015.

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