

**ROTAX**

SERVICE INFORMATION

20. UL 94

rev. 3/ Okt. 1996

ÖLSYSTEM FÜR ALLE ROTAX-MOTOREN 912

LUBRICATION SYSTEM FOR ALL ROTAX 912

1) Wiederkehrende Symbole:

NUR ZUR INFORMATION
ÄNDERUNGSCHEIN NICHT VORGESEHEN

Nachstehende wiederkehrende Symbole und Warnhinweise sind im Handbuch enthalten. Diese Warnhinweise sind wichtig und unbedingt zu beachten.

- ▲ **WARNUNG:** Vorsichtsregeln und -maßnahmen, deren Nichtbeachtung zu Verletzungen oder Tod führen können.
- **ACHTUNG:** Besondere Hinweise und Vorsichtsmaßnahmen, deren Nichtbeachtung zu Beschädigungen des Motors oder anderer Bauteile führen kann.
- **HINWEIS:** Besondere Hinweise zur Ergänzung oder zum besseren Verständnis einer Instruktion.

2) Einführung:

Alle Konstrukteure und Hersteller, Besitzer und Benutzer von Flugzeugen, in denen ROTAX-Motoren 912 eingebaut sind, müssen alle Einbaumaße für diese Motoren befolgen, und insbesondere die Einbaumaße für den Schmierkreislauf. Nichtbeachtung der ordnungsgemäßen Installation und Mangel an Ölversorgungsdruck zu Motorschäden führen. Nachstehend finden Sie Beispiele für Einbau- und Betriebsbedingungen, durch die solche Schäden entstehen können:

Motorschäden durch Schmiermangel können verursacht werden durch:

- 2.1) Verwendung eines nicht laut Betriebsanhandbuch 912, Punkt 9, Schmiermittel-Tabelle, empfohlenen oder minderwertigen Öls.
- 2.2) Inkorrekte Installation der Ölschule-Leitung (Öl-Saugleitung vom Öltank zur Motor-Ölpumpe) oder der Öl-Rücklauf-Leitung (vom Motor zurück zum Öltank), durch Verwendung von:
 - Öl-Leitungen mit zu kleinem Innen-Durchmesser,
 - zu langen Öl-Leitungen,
 - zu kleinen Radien bei der Verlegung der Öl-Leitungen, wodurch der Öldurchfluß behindert und dadurch verringert wird,
 - zu weiches Material der Öl-Leitungen
 - incorrect and unsuitable fittings with too high flow restriction.
- 2.3) Verwendung eines ungeeigneten Ölkühlers (nicht von ROTAX konzipiert und geliefert) und/oder ungeeignete Installation des Ölkühlers. Der Ölkühler, ROTAX Nr. 886 025, muß verwendet werden.
- 2.4) Verwendung eines ungeeigneten Öltanks (nicht von ROTAX konzipiert und geliefert).
- 2.5) Einbau des
 - Öltanks, ROTAX Nr. 956 137, für Motor 912 UL, oder
 - Öltanks, ROTAX Nr. 956 136, für Motor 912 A (zugelassen nach JAR 22) und/oder 912 UL, wenn in einer anderen Position installiert, als in den Einbaumaßen, Punkt 4, vorgeschrieben.

1) Repeating symbols:

FOR INFORMATION ONLY
WITHOUT COMMITMENT TO ADVISE MODIFICATIONS

Please, pay attention to the following symbols throughout the service info, emphasizing particular information.

- ▲ **WARNING:** Identifies an instruction, which if not followed, may cause serious injury or even death.
- **ATTENTION:** Denotes an instruction which if not followed, may severely damage the engine or other components.
- **NOTE:** Information useful for better handling.

2) Introduction:

All manufacturers and builders, owners, and users of aircraft using the ROTAX 912 must follow all guidelines for the installation of these engines, with special attention to the guidelines for the lubrication circuit. The failure to properly install and maintain the lubrication circuit may cause engine failures. Examples of installation and operating conditions which may cause such failures are listed below:

Engine failures due to inadequate lubrication may be caused by:

- 2.1) Use of unapproved or inadequate lubricants as noted in Operator's Manual 912, item 9, table of lubricants.
- 2.2) Incorrect installation of the oil supply line (oil suction line from oil tank to the engine oil pump) or return oil line (from the engine back to the oil tank), by installation of
 - oil lines with too small inner diameter
 - too long oil lines
 - too sharp bends in the installation of the oil lines, which cause flow restriction
 - incorrect material of oil lines (soft materials)
 - use of incorrect and inadequate fittings with too high flow restriction.
- 2.3) Use of inadequate oil cooler (not designed and delivered by ROTAX) and/or inadequate installation of oil cooler. Oil cooler, ROTAX part no. 886 025, has to be used.
- 2.4) Use of inadequate oil tanks (not designed and delivered by ROTAX).
- 2.5) Installation of
 - oil tank, part no. 956 137, for ROTAX 912 UL, and
 - oil tank, part no. 956 136, for ROTAX 912 A (certified according to JAR-22) and/or 912 UL, in other position than specified in installation instructions, chapter 4.

Rotax 912 Service Schedule

RJ Alexander

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the name bar.

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Code of Federal Regulations ,2000 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries The Code of Federal Regulations of the United States of America ,2000 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government **Aviation Maintenance Alerts** ,2000-10

Aviation Maintenance Technician Handbook-Powerplant Federal Aviation Administration (FAA)/Aviation Supplies & Academics (ASA),2012 This new FAA AMT Handbook Powerplant Volume 1 and 2 replaces and supersedes Advisory Circular AC 65 12A Completely revised and updated this handbook reflects current operating procedures regulations and equipment This book was developed as part of a series of handbooks for persons preparing for mechanic certification with airframe or powerplant ratings or both those seeking an Aviation Maintenance Technician AMT Certificate also called an A P license An effective text for both students and instructors this handbook will also serve as an invaluable reference guide for current technicians who wish to improve their knowledge Powerplant Volume 1 Aircraft Engines Engine Fuel and Fuel Metering Systems Induction and Exhaust Systems Engine Ignition and Electrical Systems Engine Starting Systems Powerplant Volume 2 Lubrication and Cooling Systems Propellers Engine Removal and Replacement Engine Fire Protection Systems Engine Maintenance and Operation Light Sport Aircraft Engines Includes colored charts tables full color illustrations and photographs throughout and an extensive glossary and index **Federal Register** ,2013-04 Airworthiness Directives: Small Aircraft, Rotorcraft, Gliders, Balloons, and Airships, Bk. 4, 2000 Though 2003: Federal Aviation Regulations, Pt. 39 ,

Code of Federal Regulations United States. Internal Revenue Service,2008 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of April 1 with ancillaries Jane's All the World's Aircraft ,2007 **AERO TRADER, MAY 2007** Causey Enterprises, LLC, **AERO TRADER & CHOPPER SHOPPER, MAY 2002** Causey Enterprises, LLC, AERO TRADER, JUNE 1997 Causey Enterprises, LLC, **AERO TRADER & CHOPPER SHOPPER, APRIL 1997** Causey Enterprises, LLC, AERO TRADER & CHOPPER SHOPPER, NOVEMBER 1999 Causey Enterprises, LLC, AERO TRADER & CHOPPER SHOPPER, APRIL 1996 Causey Enterprises, LLC, Flying Magazine ,2001-10 AERO TRADER & CHOPPER SHOPPER, NOVEMBER 2004 Causey Enterprises, LLC, **AERO TRADER & CHOPPER SHOPPER, JULY 2004** Causey Enterprises, LLC, **AERO TRADER & CHOPPER SHOPPER, APRIL 2007** Causey Enterprises, LLC, AERO TRADER & CHOPPER SHOPPPER, MAY 2004 Causey Enterprises, LLC, **Weight-shift Control Aircraft Flying Handbook** ,2008

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