

**ROTAX**

# SERVICE INFORMATION

20. UL 94

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## 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 im Ölkreislauf kann 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 Ölsupply-Leitung (Öl-Saugleitung vom Öltank zur Motor-Ölpumpe) oder der Öl-Rückfluß-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 ungeeignete Fittings mit zu hohem Durchfluß-Widerstand.
- 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

**Michael Seilmaier**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

## **Rotax 912 Service Schedule:**

*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      **Code of Federal Regulations**, 2000 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries      **Federal Register**, 2013-04

**Aviation Maintenance Alerts**, 2000-10      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      Airworthiness Directives: Small Aircraft, Rotorcraft, Gliders, Balloons, and Airships, Bk. 4, 2000 Though 2003: Federal Aviation Regulations, Pt. 39 ,      *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      **AERO TRADER, MAY 2007** Causey Enterprises, LLC,      **Jane's All the World's Aircraft**, 2007      *General Aviation Aircraft Design* Snorri Gudmundsson, 2021-10-31 General Aviation Aircraft Design Second Edition continues to be the engineer's best source for answers to realistic aircraft design questions The book has been expanded to provide design guidance for additional classes of aircraft including seaplanes biplanes UAS high speed business jets and electric airplanes In addition to conventional powerplants design guidance for battery systems electric motors and complete electric powertrains is offered The second edition contains new chapters Thrust Modeling for Gas Turbines Longitudinal Stability and Control Lateral and Directional Stability and Control These new chapters offer multiple practical methods to simplify the estimation of stability derivatives and introduce hinge moments and basic control system design Furthermore all chapters have been reorganized and feature updated material with additional analysis methods This edition also provides an introduction to design optimization using a wing optimization as an example for the beginner Written by an engineer with more than 25 years of design experience professional engineers aircraft designers aerodynamicists structural analysts performance analysts

researchers and aerospace engineering students will value the book as the classic go to for aircraft design The printed book is now in color with 1011 figures and illustrations Presents the most common methods for conceptual aircraft design Clear presentation splits text into shaded regions separating engineering topics from mathematical derivations and examples Design topics range from the new 14 CFR Part 23 to analysis of ducted fans All chapters feature updated material with additional analysis methods Many chapters have been reorganized for further help Introduction to design optimization is provided using a wing optimization as an example for the beginner Three new chapters are offered two of which focus on stability and control These offer multiple practical methods to simplify the estimation of stability derivatives The chapters introduce hinge moments and basic control system design Real world examples using aircraft such as the Cirrus SR 22 and Learjet 45

*Design of Unmanned Aerial Systems* Mohammad H. Sadraey, 2020-04-13 Provides a comprehensive introduction to the design and analysis of unmanned aircraft systems with a systems perspective Written for students and engineers who are new to the field of unmanned aerial vehicle design this book teaches the many UAV design techniques being used today and demonstrates how to apply aeronautical science concepts to their design Design of Unmanned Aerial Systems covers the design of UAVs in three sections vehicle design autopilot design and ground systems design in a way that allows readers to fully comprehend the science behind the subject so that they can then demonstrate creativity in the application of these concepts on their own It teaches students and engineers all about UAV classifications design groups design requirements mission planning conceptual design detail design and design procedures It provides them with in depth knowledge of ground stations power systems propulsion systems automatic flight control systems guidance systems navigation systems and launch and recovery systems Students will also learn about payloads manufacturing considerations design challenges flight software microcontroller and design examples In addition the book places major emphasis on the automatic flight control systems and autopilots Provides design steps and procedures for each major component Presents several fully solved step by step examples at component level Includes numerous UAV figures images to emphasize the application of the concepts Describes real stories that stress the significance of safety in UAV design Offers various UAV configurations geometries and weight data to demonstrate the real world applications and examples Covers a variety of design techniques processes such that the designer has freedom and flexibility to satisfy the design requirements in several ways Features many end of chapter problems for readers to practice Design of Unmanned Aerial Systems is an excellent text for courses in the design of unmanned aerial vehicles at both the upper division undergraduate and beginning graduate levels

[AERO TRADER & CHOPPER SHOPPER, APRIL 2007](#) Causey Enterprises, LLC, **Rotorcraft** Frank Hitchens, 2024-05-16 This work Rotorcraft covers the various types of rotorcraft including helicopters gyrocopters proprotors and tiltrotors rotors etc both civilian and military The first chapter is devoted to the development of rotorcraft from the days of the first flights of helicopter pioneers such as Juan de la Cierva Paul Corno Harold F Pitcairn and Igor Sikorsky to name a

few The second chapter of Rotorcraft covers the various types of helicopters identified by their main and anti torque rotor systems how helicopters and gyrocopters fly and the similarities and differences between the two types Helicopter manufacturers from the past to the present are included The remainder of the book details a selection of 126 individual rotorcraft types including at least one photograph technical performance data and a short history of the type An Appendix of rotorcraft facts completes this work New rotorcraft are continuously being designed and built Several various types of rotorcraft are presented here to build up a fascinating collection within these pages which I trust the reader will find of great value and interest

*Flying Magazine* ,2000-06      **AERO TRADER, OCTOBER 1999** Causey Enterprises, LLC,      **AERO TRADER & CHOPPER SHOPPPER, MAY 2004** Causey Enterprises, LLC,      **Flying Magazine** ,1993-04      **AERO TRADER & CHOPPER SHOPPER, JULY 2004** Causey Enterprises, LLC,      **Sport Aviation and the Experimenter** ,1993

*Signal* ,1997

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## **Table of Contents Rotax 912 Service Schedule**

1. Understanding the eBook Rotax 912 Service Schedule
  - The Rise of Digital Reading Rotax 912 Service Schedule
  - Advantages of eBooks Over Traditional Books
2. Identifying Rotax 912 Service Schedule
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Rotax 912 Service Schedule
  - User-Friendly Interface
4. Exploring eBook Recommendations from Rotax 912 Service Schedule
  - Personalized Recommendations
  - Rotax 912 Service Schedule User Reviews and Ratings
  - Rotax 912 Service Schedule and Bestseller Lists
5. Accessing Rotax 912 Service Schedule Free and Paid eBooks
  - Rotax 912 Service Schedule Public Domain eBooks
  - Rotax 912 Service Schedule eBook Subscription Services
  - Rotax 912 Service Schedule Budget-Friendly Options

6. Navigating Rotax 912 Service Schedule eBook Formats
  - ePub, PDF, MOBI, and More
  - Rotax 912 Service Schedule Compatibility with Devices
  - Rotax 912 Service Schedule Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Rotax 912 Service Schedule
  - Highlighting and Note-Taking Rotax 912 Service Schedule
  - Interactive Elements Rotax 912 Service Schedule
8. Staying Engaged with Rotax 912 Service Schedule
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Rotax 912 Service Schedule
9. Balancing eBooks and Physical Books Rotax 912 Service Schedule
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Rotax 912 Service Schedule
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Rotax 912 Service Schedule
  - Setting Reading Goals Rotax 912 Service Schedule
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Rotax 912 Service Schedule
  - Fact-Checking eBook Content of Rotax 912 Service Schedule
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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