SERVICE BULLETIN

Diamond AIRCRAFT

Service Bulletin No.: DA20-79-08 Rev 1 **Date Issued:** October 22, 2011

Title: Introduction of a new Oil pressure Indicator

1. **ATA Code:** 7930

2. **Effectivity:** All DA20-A1 Aircraft equipped with ROTAX 912 F3 and 912 S3 engines.

3. **General:** This service bulletin addresses:
   - Introduction of an Oil Pressure Sensor P/N 956413 on ROTAX 912 engines via ROTAX Service Instruction SI-912-020 R5.
   - Installation of a new Oil Pressure Indicator.

4. **Compliance:** Required if ROTAX 912 engine equipped with Oil Pressure Sensor P/N 956413.

5. **Approval:** Engineering data referenced or contained in this service bulletin is approved as part of the type design.

6. **Labour:** Approximately 2 hours will be required to accomplish this service bulletin.
   This estimate is for direct labor performed by a technician and it does not include setup, planning, familiarization or tools acquisition.

7. **Material:** In addition to parts defined by ROTAX Service Instruction SI-912-20 R5 the following materials are required to accomplish this service bulletin:

Part Number	Description	Qty.
20-7930-00-00	Oil Pressure Indicator	1
36151	Ring Terminals	2
20-7931-00-00	Assembly, Fuse	1

   The above material may be ordered as kit DA20-79-08-AMK1.

   NOTE: If required, Oil Pressure Sensor (p/n 956413) may be acquired through a ROTAX distributor.

8. **Special Tools:** na

9. **References:** DA20-A1 Maintenance Manual (AMM) Document number: DA201.
   DA20-A1 Flight Manual (AFM) Document number: DA202
   DA20-A1 Flight Manual (AFM) Document number: DA202-VLA
   DA20-A1 Flight Manual (AFM) Document number: DA202-100
   DA20-A1 Flight Manual (AFM) Document number: DA202-100-VLA
   ROTAX Service Instruction SI-912-20 R5 or latest approved revision
   ROTAX Maintenance Manual (Heavy Maintenance), Ref No: MMH-912

10. Accomplishment Instructions:

10.0.1 Remove the engine cowlings.

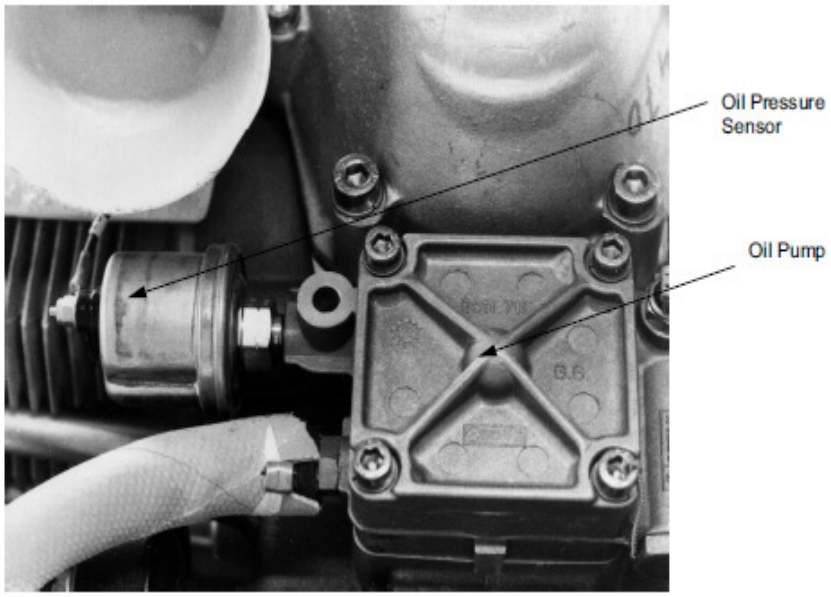
10.0.2 Disconnect the battery. Refer to AMM, Chapter 24-31.

10.1 Oil Pressure Sensor Replacement

NOTE: If ROTAX 912 F3/S3 engine already equipped with Oil Pressure Sensor 956413 proceed to Section 10.2 (Oil Pressure Sensor Wiring Installation).

10.1.1 Remove the Oil Pressure Sensor. Refer to AMM, Chapter 79-30.

10.1.2 Install new Oil Pressure Sensor (p/n 956413) in accordance with ROTAX Maintenance Manual (Heavy Maintenance Manual), latest approved revision.



NOTE: For aircraft serial number 10145 and subsequent, or aircraft with Service bulletin DA20-79-01 incorporated, Oil Pressure Sensor located on firewall (Aft RH engine compartment). Install Oil Pressure Sensor with Loctite 222 or Sealube. Torque to 30Nm (22.1 lbF·ft) (maximum).

10.2 Oil Pressure Sensor Wiring Installation

10.2.1 Route Oil Pressure Sensor pigtail in place of existing wire 79304A20 to electrical shelf located on firewall. Secure wiring using standard aircraft practices and procedures. Remove and discard existing wire 79304A20.

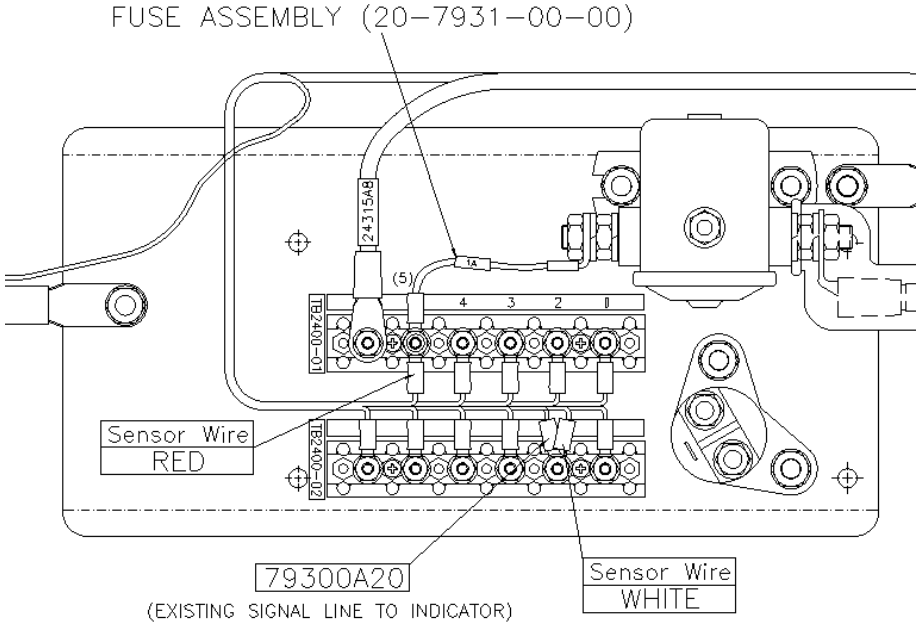
NOTE: Trim Sensor wires to length as required.

10.2.2 Crimp ring terminals (p/n 36151) to RED and WHITE Sensor wires**.**

10.2.3 Connect new Oil Pressure Sensor wires to electrical shelf as shown below. Cap and stow BLACK.

10.2.4 Install Fuse Assembly (p/n 20-7931-00-00) from battery relay to terminal block post #5 as shown below.

p/n 956413 Sensor Wire	Location
RED	TERMINAL POST #5 on Terminal block TB2400-01
WHITE	TERMINAL POST #2 on Terminal block TB2400-02
BLACK	CAP AND STOW

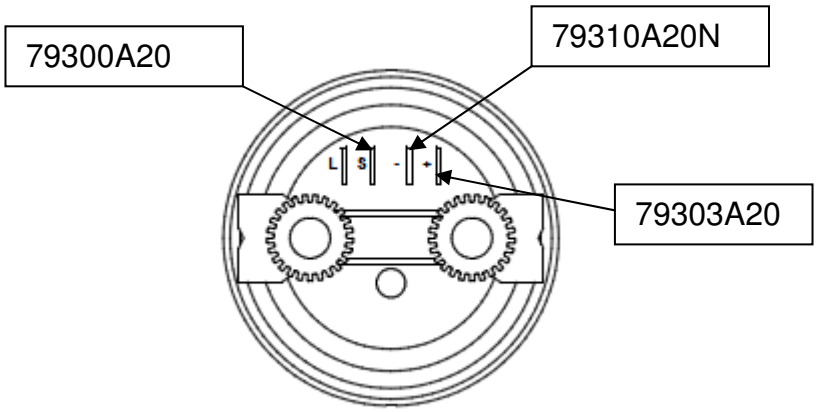


10.3 Oil Pressure Indicator Installation

10.3.1 Remove Instrument Panel cover

10.3.2 Remove existing Oil Pressure Indicator and replace with new Oil Pressure Indicator (p/n 20-7930-00-00).

10.3.3 Secure wires 79303A20, 79310A20N and 79300A20 to Oil Pressure Indicator as shown below.



10.4 Re-connect battery (Refer to AMM, Chapter 24-31), and install cowls.

10.5 Perform ground run (Chapter 4 of AFM) and check for proper operation of Oil Indicating system.

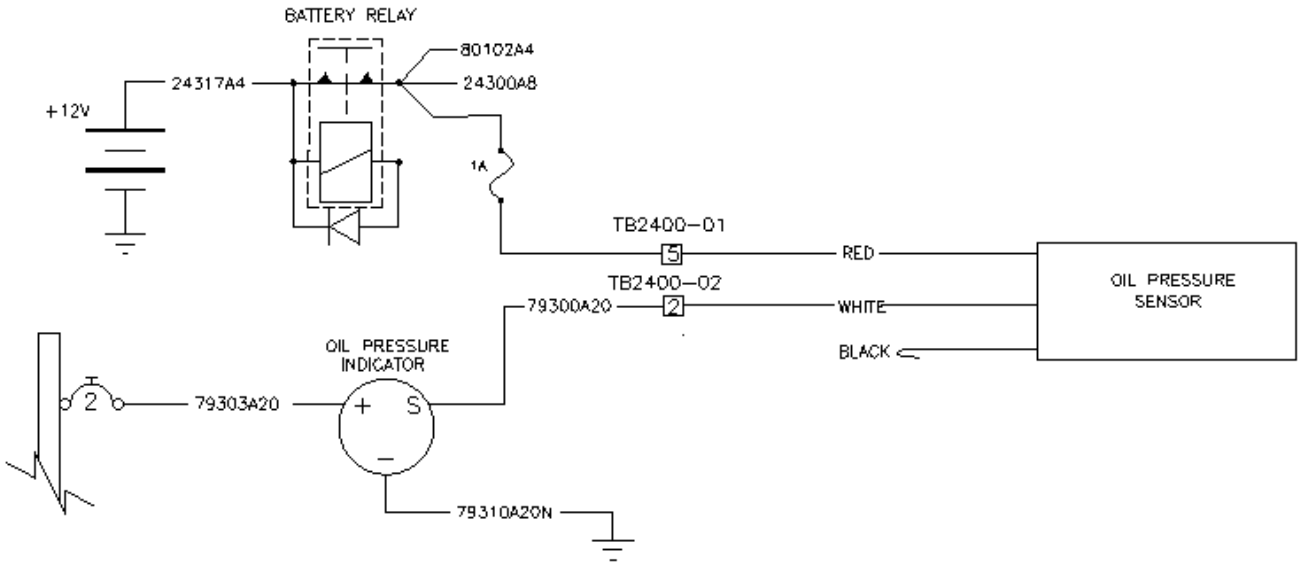
10.6 Confirm no leaks with oil system.

10.7 Make a log book entry that this service bulletin has been incorporated.

10.8 Insert applicable temporary revisions into listed manuals below.

- *DA202 TR 11-01* into AFM DA202 revision 17, or use subsequent revisions
- *DA202-VLA TR 11-01* into AFM DA202-VLA revision 7, or use subsequent revisions
- *DA202-100 TR 11-01* into AFM DA202-100 revision 5, or use subsequent revisions
- *DA202-100-VLA TR 11-01* into AFM DA202-100-VLA revision 4, or use subsequent revisions
- *DA201 TR 92-01* into AMM DA201 revision 14, or use subsequent revisions

Oil Pressure Sensor Wiring Schematic



11. Weight and Balance:

Negligible

12. Labor Credit:

None

13. Availability:

Contact Diamond Aircraft Industries Inc.

14. Electrical Load:

Part number	Description	Current (mA)
956413	Oil Pressure Sensor	20mA

To obtain satisfactory results, procedures specified in this service bulletin must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft Industries Inc. cannot be responsible for the quality of work performed in accomplishing the requirements of this service bulletin. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this Service Bulletin if it is not is incorporated.

If you no longer own the aircraft to which this service bulletin applies, please forward it to the current owner and send the name of the current owner to Diamond Aircraft Industries, Inc., at the address below

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