

## SERVICE INFORMATION NO. SI 20-035

**NOTE:** SI's are used **only**:

- 1) To distribute information from DAI to our customers.
- 2) To distribute applicable information / documents from our suppliers to our customers with additional information.

Typically there is no revision service for SI's. Each new information or change of that will be send along with a new SI.

### I. TECHNICAL DETAILS

#### 1.1 Airplanes affected:

DV 20            all aircraft equipped with BRP-Rotax 912 Series or 914 Series engines

#### 1.2 Subject:

BRP-Rotax Service Bulletin SB-912-051 and SB-914-034

ATA-Code:    72

#### 1.3 Reason:

BRP-Rotax has issued the Service Bulletins No. SB-912-051 and SB-914-034 which mandate an inspection of the magneto plug on Rotax 912 Series and 914 Series engines.

#### 1.4 Information:

For detailed technical information see BRP-Rotax Service Bulletins No. SB-912-051 and SB-914-034 which are applicable without any further additions or restrictions.

### II. OTHERS

The Service Bulletins No. SB-912-051 and SB-914-034 from BRP-Rotax are attached to this SI.

In case of doubt contact BRP-Rotax GmbH & Co. KG or Diamond Aircraft Industries GmbH.

## SERVICE INFORMATION NO. SI 22-020

**NOTE:** SI's are used only:  
1) To distribute information from DAI to our customers.  
2) To distribute applicable information / documents from our suppliers to our customers with additional information.  
Typically there is no revision service for SI's. Each new information or change of that will be send along with a new SI.

### I. TECHNICAL DETAILS

#### 1.1 Airplanes affected:

DV 22            all aircraft equipped with BRP-Rotax 914 Series engines

#### 1.2 Subject:

BRP-Rotax Service Bulletin SB-914-034

ATA-Code:    72

#### 1.3 Reason:

BRP-Rotax has issued the Service Bulletin No. SB-914-034 which mandates an inspection of the magneto plug on Rotax 914 Series engine.

#### 1.4 Information:

For detailed technical information see BRP-Rotax Service Bulletin No. SB-914-034 which is applicable without any further additions or restrictions.

### II. OTHERS

The Service Bulletin No. SB-914-034 from BRP-Rotax is attached to this SI.

In case of doubt contact BRP-Rotax GmbH & Co. KG or Diamond Aircraft Industries GmbH.

**SERVICE BULLETIN**  
**CHECKING OF MAGNETIC PLUG**  
**ON ROTAX® ENGINE TYPE 912/914 (SERIES)**  
**SB-912-051**  
**SB-914-034**

**MANDATORY**

**Repeating symbols:**

Please, pay attention to the following symbols throughout this document emphasizing particular information.

▲ **WARNING:** Identifies an instruction, which if not followed, may cause serious injury or even death.

■ **CAUTION:** Denotes an instruction which if not followed, may severely damage the engine or could lead to suspension of warranty.

◆ **NOTE:** Information useful for better handling.

**1) Planning information**

**1.1) Engines affected**

All versions of the engine type:

- 912 A from S/N 4,410.681 to S/N 4,410.712
- 912 F from S/N 4,412.912 to S/N 4,412.921
- 912 S from S/N 4,923.263 to S/N 4,923.380
- 914 F from S/N 4,420.595 to S/N 4,420.637

Also affected are all engines on which the camshaft/hydraulic valve tappets have been exchanged at engine repair/general overhaul after January 1 and to December 1, 2007.

On engine with S/N higher than the one listed above, was the hydraulic valve tappets (part no. 881831) already fitted in serial production and is therefore not affected.

◆ **NOTE:** That certain engines

- 912 A from S/N 4,410.709 to S/N 4,410.712
- 912 F from S/N 4,412.920 to S/N 4,412.921
- 912 S from S/N 4,923.381
- 914 F from S/N 4,420.633 to S/N 4,420.637

have already had the magnetic plug inspected to comply with section 1.5 (a). The inspection "before first installation or first start up" is not necessary.

**1.2) Concurrent ASB/SB/SI and SL**

none

**1.3) Reason**

In limited cases increased wear of camshaft/hydraulic valve tappet can occur.

**1.4) Subject**

Checking of magnetic plug on ROTAX® engine type 912/914 (Series).

**1.5) Compliance**

(a) before the first installation or first engine start up

(b) within the next 5 hours of operation (one-time), but at the latest by April 1, 2008, if the Alert Service Bulletin has not been carried out yet.

◆ **NOTE:** Checking of magnetic plug must be done further at all mandatory oil change in accordance with the current maintenance schedule.

▲ **WARNING:** Non-compliance with these instructions could result in engine damage, personal injury or death!

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**1.6) Approval**

The technical content is approved under the authority of DOA Nr. EASA.21J.048.

**1.7) Manpower**

Estimated man-hours:

engine installed in the aircraft --- manpower time will depend on installation and therefore no estimate is available from the engine manufacturer.

**1.8) Mass data**

change of weight --- none

moment of inertia --- unaffected

**1.9) Electrical load data**

no change

**1.10) Software accomplishment summary**

no change

**1.11) References**

In addition to this technical information refer to current issue of

- Illustrated Parts Catalog (IPC)

- Maintenance Manual (MM)

◆ NOTE: The status of Manuals can be determined by checking the table of amendments of the Manual. The 1<sup>st</sup> column of this table is the revision status. Compare this number to that listed on the ROTAX WebSite: [www.rotax-aircraft-engines.com](http://www.rotax-aircraft-engines.com). Updates and current revisions can be downloaded for free.

**1.12) Other publications affected**

none

**1.13) Interchangeability of parts**

All used parts which cannot be used must be returned F.O.B. to a ROTAX<sup>®</sup> Authorized Distributor or Service Center.

**2) Material Information**

**2.1) Material - cost and availability**

Price and availability will be supplied on request by ROTAX<sup>®</sup> Authorized Distributors or their Service Center.

**2.2) Company support information**

none

**2.3) Material requirement per engine**

Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one.

**2.4) Material requirement per spare part**

none

**2.5) Rework of parts**

none

**2.6) Special tooling/lubricant-/adhesives-/sealing compound - Price and availability**

Price and availability will be supplied on request by ROTAX<sup>®</sup> Authorized Distributors or their Service Centers. parts requirement:

Fig.no.	p/n	Qty/engine	Description	Old p/n	Application
	877890	1	Torx-Bit T40	-	magnetic drain plug

■ CAUTION: In using these special tools observe the manufacturer's specifications.

### 3) Accomplishment / Instructions

#### Accomplishment

All the measures must be taken and confirmed by the following persons or facilities:

- ROTAX<sup>®</sup> -Airworthiness representative
- ROTAX<sup>®</sup> -Distributors or their Service Centers
- Persons approved by the respective Aviation Authority

▲ **WARNING:** Proceed with this work only in a non-smoking area and not close to sparks or open flames. Switch off ignition and secure engine against unintentional operation. Secure aircraft against unauthorized operation. Disconnect negative terminal of aircraft battery.

▲ **WARNING:** Risk of scalds and burns! Allow engine to cool sufficiently and use appropriate safety gear while performing work.

▲ **WARNING:** Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one.

#### 3.1) Instructions

■ **CAUTION:** All work has to be performed in accordance with the relevant Maintenance Manual.

##### 3.1.1) Checking of magnetic plug

See fig. 1 and fig. 2

1. Remove the magnetic plug according to relevant Maintenance Manual.
2. Inspect magnetic plug in accordance with procedure in relevant Maintenance Manual.

■ **CAUTION:** If a greater quantity of metal particles (more than 3 mm (1/8")) is detected, consultation of an authorized distributor regarding further action is necessary. The engine must not be taken into operation until the cause has been identified and eliminated.

- Restore aircraft to original operating configuration.
- Connect negative terminal of aircraft battery.

#### 3.2) Test run

Conduct test run including ignition check and inspect for fluid leaks in accordance with the current Maintenance Manual of the respective engine type.

#### 3.3) Summary

These instructions (section 3) have to be conducted in accordance with compliance in section 1.5.

The execution of the mandatory Service Bulletin must be confirmed in the logbook.

Approval of translation to best knowledge and judgement - in any case the original text in German language and the metric units (SI-system) are authoritative.

#### 4) Appendix

the following drawings should convey additional information:

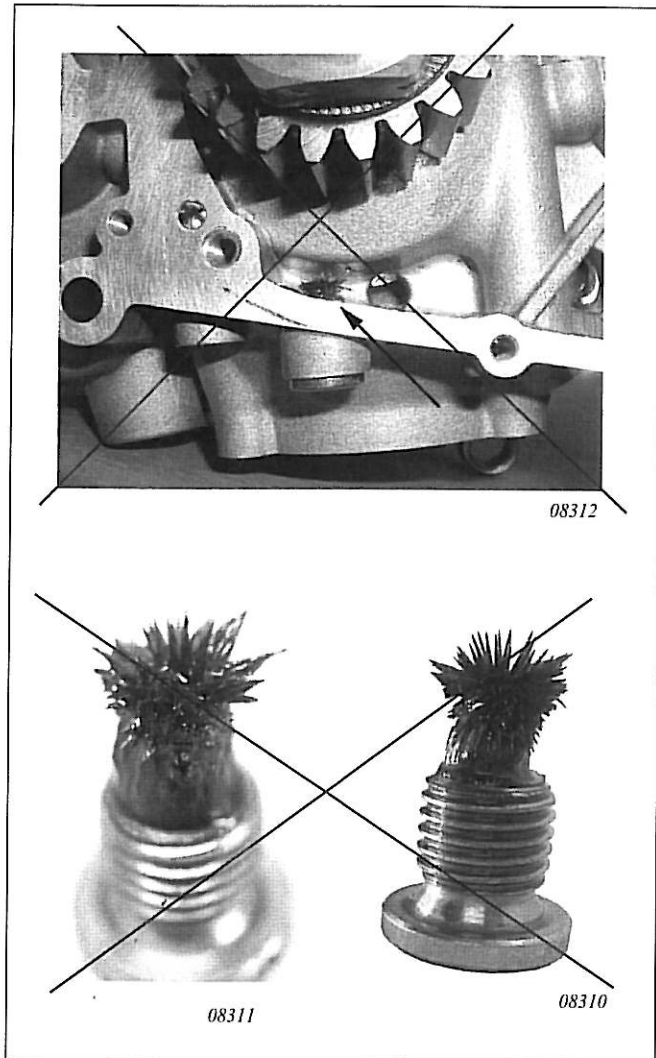
acceptable



fig. 1

08313

not acceptable



08312

08311

08310

fig. 2

- ◆ NOTE: The illustrations in this document show the typical construction. They may not represent full detail or the exact shape of the parts which have the same or similar function.  
Exploded views are **no technical** drawings and are for reference only. For specific detail, refer to the current documents of the respective engine type.