



**TOMARK, s.r.o.**  
 Division  
**TOMARKAERO**  
**TOMARKAERO CZ**

# SERVICE BULLETIN

No: **SB\_SD4-01-2016**

Date: **16.08.2016**

Revision: -

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<b>MODEL AFFECTED:</b>	Viper SD-4 all modifications
<b>APPLICABILITY:</b>	All Viper SD-4 produced equipped by Rotax engines met the Criteria A) or Criteria B) or Criteria C) listed in Paragraph 1.1) of ASB-912-069R1 / ASB-914-051R1 and in Paragraph 1.1) of ASB-912-069ULR1 / ASB-914-051ULR1.
<b>SUBJECT:</b>	Inspection / Replacement of Rotax 912 and 914 series engine carburetor floats
<b>COMPLIANCE TIME:</b>	As soon as possible/Before next flight - Inspection of affected engine and replacement of any affected carburetors and floats with a serviceable float
<b>COMPLIANCE:</b>	After receipt of this SB, refer to Rotax Alert Service Bulletin ASB-912-069R1 / ASB-914-051R1
<b>DESCRIPTION:</b>	Airplanes Viper SD-4 are equipped with Rotax 912A or Rotax 912S or Rotax 912UL or Rotax 912ULS or Rotax914UL engines. Rotax has released Alert Service Bulletins ASB-912-069R1 / ASB-914-051R1 and ASB-912-069ULR1 / ASB-914-051ULR1 concerning Exchange of floats on ROTAX® Engine Type 912 and 914 (Series).
<b>REASON:</b>	Due to a deviation in the manufacturing process of certain floats, Part Number (P/N) 861185, a partial separation of the outer skin because of resonance vibrations during engine operation may occur. These separated particles might lead to a restriction of the jets in the carburetor. As a consequence the fuel supply to the affected cylinder bank may be reduced or blocked. Possible effects are a rough engine running behavior with reduced fuel flow, up to a major power loss or engine shut down with blocked fuel flow on the affected carburetor.
<b>MANPOWER:</b>	One person with approved qualifications for the corresponding engine type. Only certified technicians (iRMT-Level: Line Maintenance)
<b>LABOR TIME:</b>	Approx: 6-8 working hours
<b>MATERIAL:</b>	Refer to Rotax Alert Service Bulletins to Paragraph 2) of ASB-912-069R1 / ASB-914-051R1
<b>REFERENCES:</b>	Rotax Alert Service Bulletin ASB-912-069R1 / ASB-914-051R1 and ASB-912-069ULR1 / ASB-914-051ULR1 Technical Description and Operation and Maintenance Manual of particular Viper SD-4
<b>WEIGHT AND BALANCE:</b>	Not affected
<b>ELECTRICAL LOAD DATA:</b>	Not affected

<b>SUPPORT INFORMATION:</b>	<p>Any possible support from BRP-Rotax will be provided on request by ROTAX® Authorized Distributors or their independent Service Centers</p> <p>Any possible support for Viper SD-4 from TOMARK s.r.o. Tomark s.r.o., Strojnícka 5, 080 01 Prešov, Slovak republic <a href="http://vipersd4.com/contact/">http://vipersd4.com/contact/</a>, E-Mail: <a href="mailto:service@tomarkaero.com">service@tomarkaero.com</a></p>
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**ACCOMPLISHMENT INSTRUCTIONS:**

Engines affected by the Rotax ASB-912-069R1 / ASB-914-051R1 or ASB-912-069ULR1 / ASB-914-051ULR1 were not installed to Viper SD-4 aircraft by manufacturer of these aircrafts. However, an operator could install affected engines in operation or during engine repair, maintenance or general overhaul as of May 09, 2016 particular engines could be affected with installation of floats with the part no. 861185.

For these reasons:

**Step 1 – Mandatory for all Viper SD-4 aircraft produced**

- 1.1 Check the aircraft maintenance records from the point of view of possible engine replacement.
- 1.2 If there is found out that the installed engine is different from the engine originally installed by the aircraft manufacturer, check the engine serial number against those in ASB-912-069R1 / ASB-914-051R1 or ASB-912-069ULR1 / ASB-914-051ULR1 to find out possible ASB applicability for this engine.
- 1.3 If the installed engine is affected by the Rotax ASBs , continue to Step 2.
- 1.4 If the installed engine is not affected by the Rotax ASBs check the engine maintenance records in the Engine Log-book from the point of view of possible if this ASB has already been accomplished or if carburetors or floats were replaced.
- 1.5 If there is found out that carburetors were changed due to repair, maintenance or general overhaul reasons check the carburetors serial numbers against those in Paragraph 1.1 Criterion B) of ASB-912-069R1 / ASB-914-051R1 or ASB-912-069ULR1 / ASB-914-051ULR1 to find out possible ASB applicability for these carburetors.
- 1.6 If the installed carburetors are affected by the ASBs, continue to Step 2.
- 1.7 If there is found out that floats part. No. 861185 were installed due to repair, maintenance or general overhaul reasons continue to Step 2.
- 1.8 Update the aircraft maintenance records to reflect the compliance with this SB\_SD4-01-2016.

**Step 2 – Mandatory for aircraft specified in Step 1**

- 2.1 Remove engine cowlings.
- 2.2 Disconnect battery.
- 2.3 Comply with Rotax ASB-912-069R1 / ASB-914-051R1. Follow instructions listed in Paragraph 3) of the Rotax ASB-912-069R1 / ASB-914-051R1.
- 2.4 Connect battery.
- 2.5 Perform Pre-flight Inspections accordance to Aircraft Flight Manual.
- 2.6 Install engine cowlings.
- 2.7 Restore aircraft to the airworthy condition.
- 2.8 Conduct test run including ignition check and leakage test.
- 2.9 Update the aircraft maintenance records to reflect the compliance with this SB\_SD4-01-2016 and update the Engine Log-book records to reflect the compliance with Rotax ASB-912-069R1 / ASB-914-051R1.
- 2.10 Confirm of implementation of the SAB\_SD4-01-2016 to the aircraft manufacturer for Viper SD-4 s/n: 0032, 0082 and 0097.

Jozef Kalnický

Complied by:

Head of the Airworthiness Department

Slavomír Dobrovič

Approved by:

Head of the Design Department