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## **INFORMATION LETTER 004**

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**The Airplane Factory (Pty) Ltd issues this information letter for the safety of Sling aircraft users.**

- TITLE:** Prevention of fuel percolation or vapor lock which may result in engine power loss and potential damage to pistons from lean mixture detonation.
- REASON:** In particularly hot weather conditions use of automobile fuel (MOGAS) may result in the formation of bubbles on the suction side of the aircraft fuel pumps, causing fuel supply problems, potential engine power loss and, if detonation occurs as a consequence, potential engine damage. Use of AVGAS or an appropriate AVGAS/ MOGAS mix will minimize or entirely resolve the percolation / vapour lock problem and is recommended by the manufacturer, Rotax, as the appropriate fix.
- MODELS AFFECTED:** All Sling aircraft fitted with Rotax 912ULS or 914UL engines.
- RECOMMENDATION:** In particularly hot ambient weather (higher than 25 degrees Celsius), it is recommended that either pure AVGAS or an AVGAS/MOGAS mixture having at least 50% avgas be used in order to reduce the possibility of percolation or vapor lock forming in the fuel system of aircraft.

**Note:**

- (1) Rotax information is available on the Rotax website - [www.flyrotax.com](http://www.flyrotax.com).
- (2) Refer to the Rotax 912ULS and 914UL operator manuals and Rotax service instructions on operating fluids, SI-912-016R8, SI-914-019R8

Signed on this the 1st day of December 2016

**ANDREW PITMAN**  
**ACCOUNTABLE MANAGER - Manufacturing Organisation M677**