RECREATIONAL AVIATION AUSTRALIA INC

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RECREATIONAL AIRCRAFT AIRWORTHINESS NOTICE

AIRWORTHINESS NOTICE IDENTIFICATION NUMBER: RA-Aus AN 200910-1 (issue 1)

COMPULSORY CHECK OF THE FUEL LINE NON RETURN VALVES IN SKYFOX AIRCRAFT

To: All owners and operators of Skyfox Aircraft.

Background: An owner has reported that during routine maintenance the rubber non return valves in the aircraft fuel lines was found to be seriously degraded, see Fig 1:

Fig 1. Degraded in-line non-return valve.

Discussion: The degradation shown in Fig 1 is most likely caused by long term contact with fuel containing ethanol and/or age. Degradation of the non return valve in this system may cause fuel feed problems to the engine.

Action Required:

BEFORE NEXT FLIGHT: Remove the brass fitting in the fuel lines which mount the non-return valve, see Fig 2 and 3.

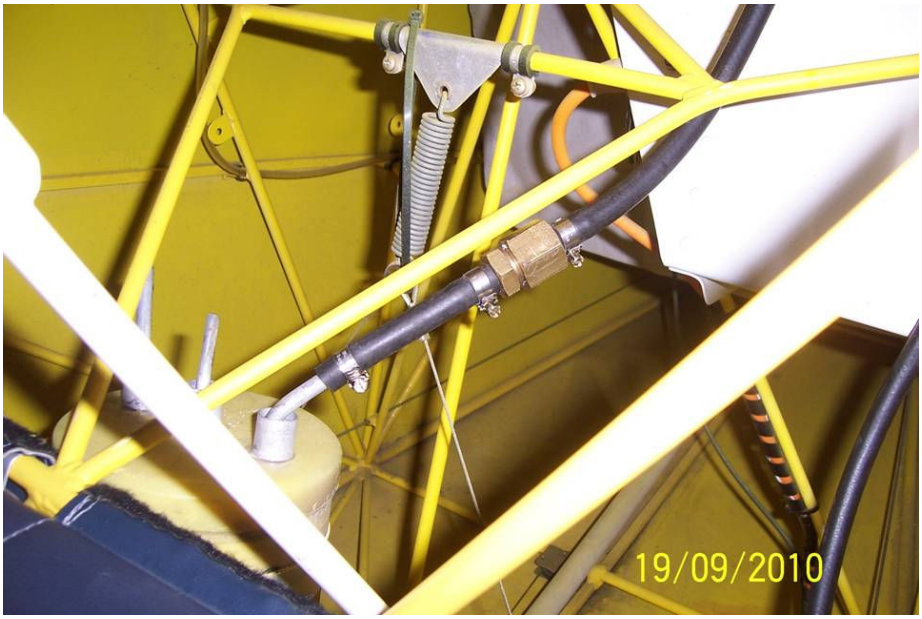

Fig 2: position of non-return valve.

Fig 3: Close up of non-return valve.

Remove the clamps and brass fitting. Using two suitable spanners open the valve casing and inspect the rubber valve mounted inside for security, damage and degradation then replace any unserviceable valves. Carefully inspect the fuel hoses for signs of ageing, hardening or softening, cracks, swelling and damage. Replace all unserviceable hoses with appropriate ethanol resistant hose.

At Each Daily Inspection:

Visually inspect the area for leaks and hose degradation or damage and replace all defective parts.

Recommended Further Action:

This is a continuing airworthiness notice and should be repeated at every annual (100hr) inspection.

Reports and Recording:

The initial inspection is to be recorded in the aircraft log book citing **RA-Aus AN 200910-1 (issue 1)** any defects found are to be reported to the RA-Aus office as soon as practical.

Technical Manager

Defect Reporting is one of the primary ways we have in ensuring continued safety in our operations.