



American Legend Aircraft Company
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SERVICE BULLETIN

American Legend Aircraft Company considers compliance mandatory

Notification Number	SB-07-03-02-1
Subject	Fuel Tanks and Sight Gauges
Supersedes Notices	SB06-02
Release Date	March 2, 2007
Effective Date	March 2, 2007
Required Corrective Action	Flush Fuel Tanks
Affected Make	American Legend Aircraft
Affected Models	AL3, AL11
Affected Serial Numbers	Aircraft manufactured before June 8, 2006

Service to be performed by: The holder of a mechanic certificate with airframe or powerplant rating(s), or both, or a LSA Repairman.

Tools required: 7/16 wrench, Phillip and flat screw driver, wire cutters

It has been found that the gas tanks have metal shavings in them which can cause the wing fuel sumps to leak, the sight gauges that have floats in them are likely to dissolve and obstruct the fuel gauge.

The tanks will have to be drained and the wing sumps removed, once removed then flush several gallons thru the tanks to ensure all shavings are removed. Once the tanks have been flushed, adequately strain the fuel used with a fine mesh screen to ensure no debris is returning to the tanks. Before reinstalling the wing sumps check to ensure there is no metal in the valve that is obstructing it from closing properly, once checked reinstall the sumps into the tanks.

If your aircraft is equipped with floats in the fuel sight gauge you are strongly recommended to remove them during the time you are flushing your tanks. It has been found that with time these floats will degrade and become lodged in the gauge keeping it from giving an accurate reading.

To remove the floats it will consist of removing the fairings to expose the connection point to the tank. Once you expose it you will be able to remove the fuel line from the gauge, this will allow you to pull the gauge from the rib closeout and remove the ball. Once removed replace the fittings and fuel line, you may need to put some sealant in the fittings to ensure they are

sealed properly. Before the fairings are placed back on the plane put some fuel in the tank to ensure there are no leaks, if no leaks are detected replace the fairings and fill tanks to capacity.

The screens in the tanks and gascolator have not allowed any foreign objects to enter the engine as far as we know. The only symptom that has presented itself is the leaking wing drain valves.

For more information please contact us at the above address or by E-mail at Service@legend.aero