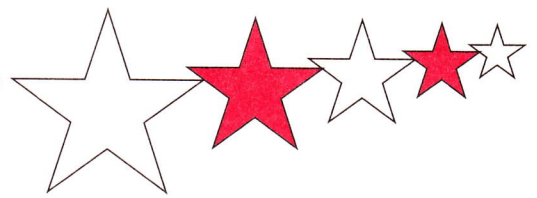


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KIT BUILT EV-97 EUROSTAR AIRCRAFT SERVICE BULLETIN SB-EV97-UK-07 COOLANT OVERFLOW BOTTLE

Classification – Recommended

Nature of Defect

The plastic overflow bottle fitted on the firewall has a flexible vent hose fitted near its top to route steam and coolant outside the engine compartment, in the very unlikely event of the coolant boiling (see Fig.1). The top of the bottle should be completely sealed with a push button valve (A), but we have noticed that in some cases Aerotechnik have drilled through the valve to make a permanent vent on the top. This of course gives two vents, and would allow some coolant to spray into the engine compartment in the event of boiling.

Airworthiness Implications

Because of the very efficient cooling system on the teamEurostar, boiling is extremely unlikely unless the radiator has been blanked off in the winter and forgotten. In the event of boiling, with an open vent at the top, some coolant may spray into the engine compartment, and some may possibly be drawn into the carburettors, causing a misfire.

Aircraft Affected

All Kit built EV97 Eurostar aircraft, if fitted with the standard supplied overflow bottle.

Rectification Action Required

Remove engine top cowling. Fit a 3.2mm x 7.9mm pop rivet (B) into the small hole at the top of the overflow bottle (rivet supplied free of charge with this bulletin). Set the rivet using an appropriately sized pop rivet tool, whilst pressing down on the valve top (A). This should completely and permanently seal the top vent.

Accomplishment

It is recommended to have the modification carried out at the next service after receiving this bulletin. The work should be signed off by a PFA inspector, and entered in the log book.

Append a copy of this Service Bulletin to the aircraft records.

Nigel Beale

FIG 1.

