

COSMIK AVIATION



COSMIK AVIATION LTD, BURNSIDE, DEPPERS BRIDGE, SOUTHAM, CV47 2SU

TEL: 01926 614422

FAX: 01926 613781

MOB: 07940 266521

4th November 2004

SERVICE BULLETIN SB/EUR/001 ISSUE 1 **EV-97 teamEUROSTAR UK AIRCRAFT** **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 discharge 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 factory built EV97 teamEurostar UK aircraft, prior to Serial Number 2010.

Rectification Action Required – In accordance with Cosmik Aviation Modification 005

Remove engine top cowling, referring to Fig 1. 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.

Any owners who do not have a tool to set the pop rivet, can obtain a modified exchange bottle cap from Cosmik Aviation, free of charge.

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 BMAA inspector, and entered in the log book. Some aircraft may have already been dealt with during servicing. The presence of a pop rivet in the centre of the overflow bottle cap indicates that the work has already been carried out.

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

Nigel Beale

FIG 1.

