



Civil Aviation Authority

# MANDATORY PERMIT DIRECTIVE



Number: 2018-006

Issue date: 8 June 2018

In accordance with 41(1) of Air Navigation Order 2016 as amended the following action required by this Mandatory Permit Directive (MPD) is mandatory for applicable aircraft registered in the United Kingdom operating on a UK CAA Permit to Fly.

Type Approval Holder's Name: <b>Light Sport Aviation Ltd</b>	Type/Model Designation(s): <b>EV-97 teamEurostar UK</b> <b>EV-97 Eurostar SL Microlight</b>
<b>Title:</b>	<b>Amendment of Inspection Requirements and Replacement of Critical Structural Items</b>
<b>Manufacturer:</b>	Evektor Aerotecnik
<b>Applicability:</b>	EV-97 teamEurostar UK and EV-97 Eurostar SL Microlight
<b>Reason:</b>	<p>A metal-fatigue analysis performed by Evektor has identified a potentially unsafe condition relating to fatigue cracks in the lower spar cap of the main spar, and the main-spar carry-through structure in the fuselage. Additionally, service experience has identified certain items that deteriorate in service and yet were not addressed by the inspection schedules in the maintenance manuals (prior to issue 6).</p> <p>Therefore, the manufacturer has amended the maintenance manuals to include:</p> <ul style="list-style-type: none"><li>• A detailed, recurring, 1000-hour inspection, starting at 2000 hours.</li><li>• Replacement of critical wing and fuselage structural components at 4000 hours (450kg EV-97 teamEurostar UK) or 3000 hours (472.5kg EV-97 Eurostar SL Microlight).</li></ul> <p>Due to the fleet size and with aircraft either exceeding or rapidly approaching the specified new intervals, this MPD has been raised to increase awareness and mandate these inspections/replacements.</p>
<b>Effective Date:</b>	8 June 2018

<b>Compliance/Action:</b>	<p>FOR ALL APPLICABLE TYPES</p> <p>From the effective date of this MPD: -</p> <ol style="list-style-type: none"><li>1. Determine that the latest versions of the applicable maintenance manual are in use (refer to "Reference Publications" section below).</li></ol> <p>Within 300 flight hours or six months from the effective date of this MPD (whichever occurs first): -</p> <ol style="list-style-type: none"><li>1. For all applicable types that have accumulated 2000 airframe hours or above, conduct the 1000-hour inspection as specified within the applicable aircraft maintenance manual.</li><li>2. For all applicable types whose wing main spars and/or fuselage main-spar carry-through structure have accumulated 4000 airframe hours or above (450kg EV-97 teamEurostar UK) or 3000 hours or above (472.5kg EV-97 Eurostar SL Microlight) conduct the replacement of critical items* as specified within the applicable aircraft maintenance manual.</li><li>3. Thereafter carry out the detailed inspection at 1000 hour intervals and the replacement of the critical wing and fuselage structural components at 4000 hours (450kg EV-97 teamEurostar UK) or 3000 hours (472.5kg EV-97 Eurostar SL Microlight) intervals as detailed in the aircraft maintenance manual.</li><li>4. If any cracks are found during the inspections noted above, before further flight consult Light Sport Aviation (LSA) for further instructions regarding repair/replacement of the affected structure.</li></ol> <p>* Replacement of critical wing and fuselage structural components can only be conducted by the manufacturer.</p> <p><b>Note:</b> Amateur-built examples of the Eurostar are not affected by this MPD.</p>
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<b>ENSURE COMPLIANCE WITH THIS MPD IS RECORDED IN THE AIRCRAFT LOGBOOK</b>	
<b>Reference Publications:</b>	EV-97 teamEurostar UK (MAUW 450kg RTF) – Maintenance Manuel, ref. GEN/EUR/02, issue 7 (or later approved issue). EV-97 Eurostar SL Microlight (MTOW 472.5kg RTF) Maintenance Manual, ref. GEN/EUR/04, issue 7 (or later approved issue).
<b>Remarks:</b>	<ol style="list-style-type: none"><li>1. During development of this MPD, BMAA and LAA were consulted.</li><li>2. Enquiries regarding this Mandatory Permit Directive should be referred to: GA Unit, Safety Airspace Regulation Group, Civil Aviation Authority, Aviation House, Gatwick Airport South, West Sussex RH6 0YR.  Tel: +44 (0)1293 573988 E-mail: GA@caa.co.uk</li></ol>