

The technical content of this document is approved under the authority of DOA ref. UK.21J.0140 (Mod C876)

7.5 RAVEN AEROSTAR 'BOTTOM ENDS'

7.5.1 GENERAL

This supplement shall be inserted in the Maintenance Manual, in Section 7: 'Supplements' with the revisions record sheet amended accordingly.

Information contained herein supplements, or in the case of conflict, supersedes that contained in the basic Maintenance Manual. For Limitations, Procedures, and Performance Data not contained in this supplement, consult the basic Hot Air Balloon Maintenance Manual.

All references to the Raven Aerostar Maintenance Manual refer to the following documents and webpage

- ACAI Part I
- ACAI Part II
- Appendix II-ZZ Inspection and maintenance checklist
- www.ravenaerostar.com/hot-air-balloons/continued-airworthiness-instructions

Issue 1 of this supplement consists of four pages.

7.5.2 ENVELOPE REPAIRS

No Change.

7.5.3 BASKET REPAIRS

See Raven Aerostar ACAI Part II.

7.5.4 FUEL SYSTEM REPAIRS

See Raven Aerostar ACAI Part II.

7.5.5 INSTRUMENT REPAIRS

For repairs of Raven Aerostar supplied instruments see Raven Aerostar ACAI Part II.

7.5.6 MAINTENANCE SCHEDULE

7.5.6.1 GENERAL

All Raven Aerostar components must be inspected according to the instructions contained in Raven Aerostar ACAI Part II: Section 3 at the latest approved revisions.

All Raven Aerostar Service Bulletins must be complied with.

All Raven Aerostar airworthiness limitations must be complied with. See ACAI Part 1 Section 3.

7.5.6.2 SCHEDULED INSPECTIONS AND COMPONENT LIFE

7.5.6.2.1 SCHEDULED INSPECTIONS

Component/ Inspection	Frequency			
	Calendar	Permitted Variation	Hours	Permitted Variation
Burner				
Annual/100hr	12 Months	None	100 Hours	None
Basket				
Annual/100hr	12 Months	None	100 Hours	None
Cylinder				
Annual	12 Months	None	100 Hours	None
Periodic *	10 Years	Three months	None	None

* Periodic inspection of fuel cylinders must include a Proof Pressure Test to the test pressure of the cylinder (if marked) or least twice the safe working pressure of the cylinder (EN16728 or similar applicable standard).

7.5.6.2.2 COMPONENT LIFE

Component	Life Limit
Fuel Hoses: Including manifolds and vapour hoses	10 Years from the date of manufacture of the hose assembly.
Cylinder: Pressure relief valve	10 Years*

* Pressure relief valves have a maximum storage life (prior to installation) of 5 years. When the date of installation is not known the maximum service life is ten years from the date marked on the valve (PRV).

7.5.6.3 UNSCHEDULED INSPECTIONS

1. Pre Flight Inspections.

No change

2. Envelope Overheat inspections.

See Raven Aerostar ACAI Part 1 Section 3: Envelope Fabric After Possible Overheating.

3. Powerline contact Inspections

No change

4. Test Inflation After Repair.

No Change

5. Inspection after Heavy Landing or Transport Accident.

See Raven Aerostar ACAI Part 1 section 4.

If the balloon is involved in a transport accident an assessment must be made as to which assemblies require inspection. The affected assemblies must be subjected to a full 100 hr / annual inspection.

Where burner assemblies are subject to impact damage (e.g. hitting a tree branch or bridge while in the rigged position) particular attention should be paid to the burner, burner frame and burner mounting system.

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