THE TECHNICAL CONTENT OF THIS DOCUMENT IS APPROVED UNDER THE AUTHORITY OF EASA.21J.140 (C547)

7.32 OUT OF PRODUCTION HOPPERS

7.32.1 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.

7.32.2 ENVELOPE REPAIRS

No change.

7.32.3 BASKET REPAIRS

No change.

7.32.4 FUEL SYSTEM REPAIRS

7.32.4.12 COLT CLOUDHOPPER BLAST VALVE OVERHAUL

Overhaul the blast valve by replacing all the Teflon seals or, if desired, the valve centre body can be replaced. To change these Teflon seals only, the centre body of the valve needs to be removed. To achieve this extract the body connector bolts (use 2 x 7/16" A/F spanners) and slide the body out from between the valve ends. The quickest way is normally to remove all but one of the body connector bolts and with this remaining bolt slackened; the body may be rotated out from its working position using this remaining bolt as a hinge.

WARNING: The ball must be in the open position during this operation since a closed ball protrudes beyond the body cavity and the ball will be damaged against the valve ends when the body is removed or rotated. When the centre valve body is removed, turn valve to half-closed position and hook out the Teflon seals with a finger. Completely close the valve and the ball may be pushed out.

The body connector seals should now be removed. Care must be taken to avoid scratching the machined faces which make contact with the valve body.

To dismantle stem assembly, first remove the handle nut and handle from the stem (use a 9/16" hexagon spanner). Then remove retaining nut (9/16" A/F), disc spring and follower. Withdraw stem through body cavity and remove the lower Teflon stem seal and the two upper Teflon stem seals. Reassemble valve in reverse order using new Teflon seals.

If a torque wrench is available tighten the body connector bolts to 8 lbs/ft, otherwise tighten firm but not excessive by hand.

The tension applied to the retaining nut is important. If fitted too loose there is a risk of stem leakage if the handle is pulled hard downwards when operating. If tightened down too hard there will be excessive wear on the Teflon stem seal and a stiff opening action.

When fitting the retaining nut (9/16" A/F) tighten gradually and operate the valve from fully closed to fully open after each tightening until there is a firm even resistance when operating without undue friction.

7.32.5 INSTRUMENT REPAIRS

No change.

7.32.6 MAINTENANCE SCHEDULE

7.32.6.2.2 Component Lives (additional)

Component	Life Limit			
	Calender	Permitted Variation	Hours	Permitted Variation
Burner (Cloudhopper): Blast valve teflon seals	None	None	100 hr	10 hr

Basket Type:			
Part No.:		**Serial No.:**	

7.32.6.5.7 Burner and Fuel System

Component	Check / Inspect / Record	Pass/Fail
Fuel Warning	Check the fuel level warning system.	
Selector Valve (Skyhopper)	Check Function, Leakage, Lubricate	
Ignitor (Cloud Hopper)	Inspect for damage, deterioration, completeness	

7.32.6.5.8 Hopper Frames

Component	Check / Inspect / Record	Pass/Fail
Hopper Frames	Inspect welds for cracking	
	Inspect tubes for distortion/deformation	
Swivel Ring	Inspect for damage, security, completeness, smooth operation	
Seat	Inspect for damage, deterioration, completeness	
Trim	Inspect for damage, deterioration, completeness	
Harnesses	Check correct function, condition and completeness	

Notes:

Workpack No.	CN	Inspection Date	Inspectors Signature/No.

7.32.6.6 INSPECTION CRITERIA / TECHNIQUES

7.32.6.6.4 Burner and Fuel System

Fuel Level Warning System: Check the fuel level warning system by inverting the cylinder to activate it. Should it fail to sound, follow the electric lead from the warning wire boss to the on-off switch. Check for loose wires and install a new battery. If failure remains consult the manufacturer.

Selector Valve (Skyhopper): Check for leaks and correct operation.

Inbuilt igniter (Cloudhopper): Check the inbuilt igniter for proper function. Should it fail to spark check the ignition wire lead from the crystal unit to the spark plug. If this fails to activate the igniter then the complete spark generator must be replaced.

7.32.6.6.5 Hopper Chair

Swivel Ring: Check the swivel ring for smooth operation. Swivel through 360° and while the action should be very light look for excessive play.

Frame: Inspect the frame carefully paying particular attention to the condition of the welds. Check for any sign of fracture or unauthorised repairs, particularly if the frame shows signs of distortion.

Harnesses: Check the physical condition of the latch mechanism. Inspect for signs of distortion or wear. Check the operation of the latch. Inspect the webbing straps for signs of wear, cuts, heat damage and UV degradation (UV degradation usually manifests itself as fading of the webbing). If the webbing has any defects it should be replaced.