

Repair Station:	Order No:
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### 100 hr / Annual Inspection Checklist

Balloon registration:	Registration expires:	Total Flight Time:	Flight time since last inspection:	Inspection date:	Inspectors signature:
N					
<u>Final result:</u> The balloon is considered as airworthy :      YES / NO					

#### 0. Balloon parts identification

	Type	S/N		Type	S/N
Envelope			Fuel Tank 1		
Basket			Fuel Tank 2		
Burner			Fuel Tank 3		
			Fuel Tank 4		
Instrument			Fuel Tank 5		
			Fuel Tank 6		
<i>Remarks:</i>			Fuel Tank 7		
			Fuel Tank 8		

#### 1. Paperwork (balloon documentation)

All of the following documentation must be present and checked during the inspection.

Document	Check / Inspect	Pass / Fail (✓) / (x)
Balloon Logbook	Equipment listed ; balloon age and hours flown ; maintenance repairs and modifications since last revision	
CofA		
Flight Manual	The latest issue mandatory for the balloon	
Applicable Service Bulletins / AD	Check that all applicable service bulletins and ADs applicable for the balloon have been carried out.	
STC	Flight manual supplement and STC (When components made by another manufacturer are used only)	
Findings / remarks:		

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## 2. Envelope

Part	Check / Inspect	Pass / Fail (√) / (x)
Crown ring	In place ; not corroded ; crown line undamaged and has appropriate length	
Vertical load tapes	Joints with the crown ring, top of the envelope and wires. All vertical load tapes undamaged along their entire length.	
Horizontal load tapes	All horizontal load tapes undamaged along their entire length. Inspect base horizontal tape and edge of the envelope top. Inspect joint between base horizontal load tape and vertical load tapes.	
Fabric Panels	Inspect the envelope fabric panels for damage, porosity overheating or weakness. Unrepaired damage is within tolerance given by Flight manual. Check that the previous repairs are performed correctly and according to maintenance manual. If substantial fabric porosity is suspected then a flight test should be performed, but only after a grab test has demonstrated that the balloon is safe to fly (par. 7.16).	
Grab testing	If the envelope has more than 260 hours or has been significantly overheated (tempilabel indicates 138°C or more) or you are unsure about fabric condition perform a grab test ( MM par. 7.16)	
Flying Cables	Inspect for damage (particularly heat damage). Kevlar cable – yellow core is not visible	
Karabiners	Inspect for damage. Karabiner lock is working properly.	
Melting link	Melting link and temperature streamer correctly attached	
Tempilabel	Inspect the Tempilabel. If overheating is indicated (over 138°C) perform overheating inspection (par. 7.18.1)	
Findings / remarks:		

### Grabtest results

Gore No:	Fabric color	Result [kg]	Pass / Fail (√) / (x)	Gore No:	Fabric color	Result [kg]	Pass / Fail (√) / (x)
Finding / remark:							

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### 3. Deflation system

Part	Check / Inspect	Pass / Fail (√) / (x)
Fabric panels	Inspect for damage, porosity, overheating or weakness. Inspect joints and stitching.	
Velcro tabs	Inspect for damage, wear, sufficient strength of peeling	
Sewn loops	Inspect for damage, wear, security (both on the deflation panel and envelope)	
Centralizing lines	Inspect for damage wear, security of knots. Check proper length Check position of stoppers (FDS only)	
Shroud lines	Inspect for damage, wear, security of knots.	
Top lines	Inspect for damage, wear, security of knots	
Control lines	Inspect for damage, wear, security of knots. Check proper length	
Control lines attachments	Inspect for damage, wear, security of knots	
Control lines pulleys	Inspect for damage, wear, free running, contamination, security of attachment	
FDS pulleys	Inspect for damage, wear, free running, contamination, security of attachment	
Lite Vent weight (if fitted)	Inspect for damage, wear and security of attachment.	
Rip panel lock (if fitted)	Check correct function	
Findings / remarks:		

### 4. Rotation vents

Part	Check / Inspect	Pass / Fail (√) / (x)
Fabric panels	Inspect for damage, porosity, overheating or weakness. Inspect joints and stitching.	
Free tapes	Inspect condition of stitching at ends of tapes	
Pulling triangles	Inspect condition of stitching	
Control lines	Inspect for damage wear, security of knots. Inspect lite vent weight.	
Control lines attachments	Inspect for damage wear, security of knots	
Control lines pulleys	Inspect for damage, wear, free running, contamination, security of attachment	
Findings / remarks:		

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### 5. Basket

Part	Check / Inspect	Pass / Fail (√) / (x)
Basket body	Check the general condition of the basket body. Inspect weave for damage, cracks / holes. No sharp objects inside the basket	
Basket wires	Inspect for damage, check eye rings	
Karabiners	Inspect for damage. Karabiner lock is working properly.	
Basket floor	Inspect for damage and cracks	
Runners	Inspect for damage	
Rawhide	Inspect for damage, wear and attachments to the floor	
Rope handles	Inspect for damage, security of attachment	
Cylinder straps	Inspect for damage, deterioration	
Padded basket edge trim	Inspect for damage and wear	
Burner rods	Inspect for damage, wear and cracking	
Padded burner rod covers (4 / 8 pcs.)	Inspect for damage and wear	
Basket equipment	Check presence and functionality of drop line, fire extinguisher, fire blanket	
Basket padding (if fitted)	Inspect for damage and wear	
Pilot Restrain harness (if fitted)	Inspect for damage, wear, security of attachment	
Basket door (if fitted)	See Maintenance manual Supplement B.2202-D&S, par. 7.14.4.8	
Basket seat (if fitted)	See Maintenance manual Supplement B.2202-D&S, par. 7.14.4.9	
Removable partition (if fitted)	See Maintenance manual Supplement B.2202-D&S, par. 7.14.4.10	
Straining beam (if fitted)	Check tightness	
Additional basket equipment (if fitted)	Inspect for damage and wear. No sharp edges inside the basket	
Findings / remarks:		

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## 6. Ignis Burner

Part	Check / Inspect	Pass / Fail (√) / (x)
Burner Frame	Inspect welds for cracking	
	Inspect tubes for distortion/deformation/cuts/gouges	
	Inspect frame for security of fasteners (heat shields, flexi corners)	
	Inspect frame lugs for wear, cracking.	
	Inspect general condition (corrosion, heat shields)	
Gimballing	Check stiffness, security of fittings	
Burner System	Leak check (including manifolds)	
Hoses	Inspect all hoses, check dates	
Pressure Gauges	Check Pressure Gauge reads zero when no pressure applied, lens present	
Pilot Valves / flame	Check Shut off, free movement, Correct Function, lubricate if necessary	
Whisper Valves / flame	Check Shut off, free movement, Correct Function, lubricate if necessary	
Main Valves / flame	Check Shut off, free movement, Correct Function, lubricate if necessary	
Jets	Check Security of Jets, Tighten or Replace as necessary	
Coils	Check for damage, distortion, security of fasteners. Inspect welds for cracking	
Fuel Manifolds	Check Correct Type, Inspect condition, check dates (if applicable)	
Height Adjustment (if fitted)	Check Function, Leaks	
Findings / remarks:		

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### 7. Fuel tanks

Part	Check / Inspect	Pass / Fail (✓) / (x)							
		1	2	3	4	5	6	7	8
Cylinder	Check, Periodic inspections for each cylinder is valid (date) (e.g. 10 years inspection)								
Cylinder steel body	Inspect for damage, corrosion								
Liquid Valve	Inspect for damage, corrosion, correct operation								
	Inspect O-ring seals, Lubricate/replace as required								
Fixed Liquid Level Gauge	Inspect for damage, corrosion, correct operation								
Contents Gauge	Inspect for damage, corrosion, freedom of movement								
Vapor Valve	Inspect for damage, corrosion, correct operation (including regulator)								
	Inspect Quick Release Coupling for correct operation, sealing								
Padded cover	Inspect for damage								
Pressure relief valve	Does not indicate over pressuring								
Assembly	Inspect, Leak test all pressure holding joints using leak detector								
	Functional Test								
Findings / remarks:									

### 8. Additional equipment

Part	Check / Inspect	Pass / Fail (✓) / (x)
Instruments	Functional check	
Quick release	Functional check and inspect the condition of the latch, bridle and ropes for wear and deterioration. Check that the karabiners are undamaged and operate correctly.	
Findings / remarks:		