

APPENDIX I-A  
SAMPLE LOGBOOK  
ENTRIES

## **APPENDIX A**

The following are examples of logbook entries to be made in accordance with FAR Part 43.

### **Preventive Maintenance**

“ The following preventive maintenance has been performed to this aircraft in accordance with FAR 43 and the Aerostar Continued Airworthiness Instructions.

(Detail Preventive Maintenance Performed)

This aircraft is approved for return to service “

Jan 01, 20XX John Q. Pilot Cert. #

### **Airworthiness Limitations**

"This aircraft was inspected and found to be outside the airworthiness limitations (specify) as per Aerostar ACAI Part I, and is removed from service for repair/replacement this date. “

Jan 01, 20XX Jane A. Pilot Cert. #

### **Hard Landing Inspection**

"This aircraft was inspected following a hard landing in accordance with Aerostar ACAI Part I, Section 4, and found airworthy for return to service. “

Jan 01, 20XX Bob D. Pilot Cert. #

### **Hose Inspection/Replacement**

"Fuel hoses inspected per Aerostar Service Bulletins and found airworthy for return to service.

Or

"Hoses replaced in accordance with the Aerostar Continued Airworthiness Instruction Part I Section 2.0 (5) as preventative maintenance and is approved for return to service. “

Jan 01, 20XX Ira Pilot Cert. #

**Airworthiness Directive, Service Bulletin or Service Letter Compliance**

“I certify that the following component (envelope RX7- 9000) has been inspected in accordance with Aerostar Service Bulletin # 000 and has found to be unaffected due to the date of manufacture of this aircraft.”

Or

“ I certify that the following component (gondola RWS s/n 2001) has been serviced in accordance with Aerostar Service Letter # 000, and is approved for return to service.”

Jan 01, 20XX C. A. Pilot Cert. #

# APPENDIX I-B

SERVICE BULLETINS

AIRWORTHINESS DIRECTIVES

SERVICE LETTERS

MAINTENANCE BULLETINS

## **SERVICE BULLETIN SUMMARY**

Aerostar International is highly concerned about balloon safety. We are constantly striving to identify areas for design improvement, and we take corrective action as soon as problems arise. We work closely with the FAA in alerting Aerostar (Raven) owners to potential problems, safety precautions, and upcoming airworthiness directives. The need to distribute information in a timely manner to owners of record has given rise to what we call "Service Bulletins".

In the interest of safety and to insure that all owners are informed of past safety problems, concerns, and their corrective actions, the following is a summary of 37 Service Bulletins issued over the past years.

### **SB-101 (1974) -- Horizontal Tank Strap Assembly**

Straight-type strap fittings needed to be reinforced with a safety cable.

### **SB-102 (1975) -- Rego Blast Valves**

Some Rego valves on 4-barrel burner assemblies were not completely closing when their pull cable was released, so the nylon washer under the handle was replaced with a thinner one.

### **SB-103 (8/19/75) -- Warning Signs**

Installation of signs on fuel tanks and precaution against filling tanks in the basket, especially with an open valve on the liquid level gauge in the Rally RX-6.

### **SB-104 (1/30/76) -- Polyethylene Basket Below 40° Fahrenheit**

Suspension of flight of the Rally RX-6 when temperatures drop below 40° Fahrenheit to prevent cracking of the poly liner during landings.

### **SB-105 (1/30/76) -- Rally Vent Modification**

Installation of a partial circumferential load tape on the outside of the envelope to reinforce the Rally vent.

### **SB-106 (7/6/76) -- Drain Holes in Aluminum Basket Support**

Model G baskets certified in all categories needed inspection to verify existence of two drain holes in the square aluminum tubes that pass under the basket.

### **SB-107 (7/29/76) -- Deterioration of White Fabric**

The factory recalled and replaced white fabric used in Rally RX-6 models above the lower circumferential load tape.

### **SB-108 (6/13/78) -- Load Fitting Wear**

Inspections of Rally RX-6 baskets with frequent or long transportation with load fitting attached for aluminum superstructure wear and deformation.

### **SB-109 (3/19/79) -- Electric Ignition Modification**

An S-55A and S-60A with plug-in instrument panel could present a hazard if the electric blast valve cord's plug is inserted into its instrument panel jack with the power on, thus momentarily activating the blast valve.

### **SB-110 (4/13/79) -- Electric Blast System Instrument Console**

Potential sluggish or intermittent operation of the electric blast valve if detachable jack-plug for push-button cord is connected and instrument panel's latch is engaged, so the panel chassis completes a circuit to the battery.

**SB-111 (12/14/79) -- Parachute Top Vent**

Reduction in force required to initially dislodge the Velcro positioning tabs on parachute type tops.

**SB-112 (3/16/81) -- Maintenance Procedure for Velcro Deflation Cap**

For testing and replacement of hook and pile fastener used to seal the circular deflation panel.

**SB-113 (11/24/81) -- Push-Checks in HP-II Burner**

Installation of push-checks in all HP-II burner pressure gauges to prevent melting of a solder connection and causing a hazardous leak.

**SB-114 (7/15/83) -- Pilot Light Valve**

Precaution for packing nut on valve stem of vapor pilot light valve which can be loosened in service and cause severe propane leak.

**SB-115 (10/26/83) -- Deflation Panel Pull Forces**

Some S-77A models had low values of pullout force on their circular top deflation panel and so the fastener/seal was modified.

**SB-116 (6/1/84) -- Superpressure Blowers**

Changes in the fan hub dimensions by the blower manufacturer made the spacer thickness very critical resulting in the fan actually working loose.

**SB-117 (6/25/84) -- Classic Stretch Wicker Baskets**

Possible breakage of the vertical canes directly below the step at the skid interface forced installation of a reinforcement plate.

**SB-118 (8/28/85) -- O-ring Replacement**

Possibility of incorrect O-rings causing the blast valve stem to leak and forcing the replacement of O-rings in some systems.

**SB-119 (12/18/85) -- Classic IX Basket Inspection**

The welds on the lower frame of the Classic IX basket needed inspection for stress cracking induced by fatigue.

**SB-120 (5/15/86) -- Faulty Fuel Hose**

After some leaks were experienced, Aeroquip fuel hoses were suspected of being faulty and required return to the factory for inspection, analysis, and reconstruction as required. (3Q84 and 4Q84.)

**SB-121 (7/21/86) -- Ball Pyrometer Infrared Sensitivity**

Radiant infrared heating during burns may cause abnormally high readings to digital pyrometers and so the sensor needed to be coated with reflective white paint.

**SB-122 (1/15/87) -- Cable Reinforcement in S-66A and S-77A Baskets**

All TW model baskets required installation/retrofitting of a backup cable outside of the aluminum frame in case of failure due to sudden impact or overload, or high cycle fatigue in conjunction with stress corrosion which can result in burner left attached over long periods of ground transport.

**SB-123A (8/28/89) -- AFT Cables**

All cables using the Web Davis fittings are affected except those tangs shown in the diagram with .45" holes in both ends do not apply.

**SB-124 (7/19/89) -- All AFT Cables Proper Care and Handling**

Applicable to all Aerostar systems with AFT suspension.

**SB-125 (11/1/88) -- All AFT Cables**

- A) Inspection Procedures,
- B) Approved Maintenance Procedures. Applicable to all Aerostar systems with AFT suspension.

**SB-126 (7/25/90) -- All 2-pt AFT Cable Systems**

Replacement of load fittings.

**SB-127 (7/25/90) -- AFT Rally Load Fitting**

Replace with Stainless Steel cables at next annual

**SB-128 (12/1/90)**

ELS Basket Serial Number 101-125 with dual vertical tank installation.

**SB-129 (11/28/90)**

Undetectable premature strength loss in AFT suspension cables.

**SB-130 (2/20/92)**

Replacement of aluminum support tubes on Classic Limited Stretch or Classic Limited baskets.

**SB-131 (10/01/92)**

Replacement of Gimbal spring plate and shaft on "Zone Five" burner.

**SB-132 (8/12/93)**

Aeroquip hose recall 1992 dating.

**SB-133 (8/23/94)**

Installation of cable redundancy kits with 4 point aluminum superstructures in Classic, Classic Limited and Classic Limited Stretch baskets.

**SB-134 (11/14/94)**

Installation of oversleeves on interface pins in all Classic VIII (RB5), Classic IX (RB6) and Classic X (RB8) baskets.

**SB-135 (7/15/96)**

Rego 9107 Cylinder Valves and Valve Bonnet Replacement in REGO 9109 Series.

**SB-136 (1/28/00)**

Installation of stainless steel spring latch on all Aurora style HP3S burner assemblies.

**SB-137 (7/15/03)**

Remove all 10 gallon aluminum fuel cylinders from service immediately.

Thanks to the cooperation of owners, pilots and Repair Stations, we feel Aerostar balloon systems are the safest in the world and continue to become safer as new improvements are developed and implemented. To insure 100% compliance with Service Bulletins, it is most important that Aerostar (Raven) owners take the required actions as specified in SB's applicable to their particular balloon system.

If your balloon was manufactured after the date of the Service Bulletin, that bulletin will not apply to your system.

## **AIRWORTHINESS DIRECTIVES**

- 75-19-04 --** Rego Blast Valve (reference SB #102)
- 76-03-04 --** Polyethylene Basket (reference SB #104)
- 80-01-03 --** Parachute Top Vent (reference SB #111)
- 81-21-02 --** Maintenance Procedure for Velcro Deflation Cap (reference SB #112)
- 86-10-11 --** Faulty Fuel Hose (reference SB #120)
- 90-25-09 --** AFT Suspension Cables (reference SB #129)
- 93-16-13 --** Aeroquip Hose recall (reference SB #132)

## SERVICE LETTERS

- SL 101 (9/19/86) -- Retrofit of Latest Deflation/Vent Panel Attachment Method
- SL 102 (10/16/87) -- Add Tank Pads with 15 Gallon Tanks
- SL 103 (11/1/90) -- Springtop® Paravent Modification
- SL 104 (2/17/93) -- Torquing of Rego 9107 Cylinder Valves
- SL 105 (7/12/93) -- Piezo Igniter Modification
- SL 106 (11/7/94) -- Poly Skid Guard Protectors
- SL 107 (11/7/94) -- Classic X Basket Floor Plate
- SL 108 (11/8/94) -- Deflation Panel Fit in AERO 65 (S52A)
- SL 109 (11/9/94) -- Clarification of SB 122, Classic IX & X Baskets
- SL 110 (9-10-98)-- Aerochute vent/deflation system in S-81A envelopes
- SL 111 (5-15-99)-- Airworthiness testing of fabric used in Aerostar envelopes
- SL 112 (11-01-99)-- Installation of Stainless Steel lower cable in AFX gondolas
- SL 113 (11-01-00)-- Replacement of the "SET" control knob on Ball M55A model instruments

## MAINTENANCE BULLETINS

**Maintenance Bulletin #805001**      Date of Issue: 09/29/2005  
Subject: Inspection of pilot light orifice (HP2-update and HP3 burners)

**Maintenance Bulletin #0611002**      Date of Issue: 06/09/2011  
Subject: Rework and repair of pilot light vapor converter (HP2-update and HP3 burners)