

Number: SB 2X-95-13

Issued: November 30, 2010

SNS SUBJECT: 95-00 SPECIAL EQUIPMENT - CAPS Strap Inspection And Grommet Installation

1. COMPLIANCE

Mandatory: Cirrus Design considers this Service Bulletin to be MANDATORY. Accomplish this Service Bulletin at next Cirrus Airframe Parachute System 10-Year Overhaul. Compliance time begins upon receipt of this Service Bulletin.

2. EFFECTIVITY

SR20 Serials 1005 thru 1773.

SR22 Serials 0002 thru 2380.

3. APPROVAL

FAA approval has been obtained on all technical data in this Service Bulletin that affects type design.

4. PURPOSE

On affected aircraft, the red straps for the parachute bag may show signs of chafing at the CAPS compartment pass-through slots. To reduce potential for chafing, this Service Bulletin provides for the inspection of the parachute bag straps and enlargement of the CAPS compartment pass-through slots to facilitate grommet installation.

5. DESCRIPTION

This Service Bulletin describes chafing inspection of the parachute bag straps, CAPS compartment pass-through slot enlargement, and grommet installation.

6. WARRANTY INFORMATION

For aircraft under warranty at the issue date of this Service Bulletin, Cirrus Design will cover all parts and labor costs for this Service Bulletin if the work is accomplished within the next 13 months and the work is performed at an authorized Cirrus Design Service Center.

7. MANPOWER REQUIREMENTS

1.5 man-hours.

8. OTHER PUBLICATIONS AFFECTED

SR20 CAPS Component Maintenance Manual (p/n 12128-001)

SR22 / SR22T CAPS Component Maintenance Manual (p/n 15994-001)

9. WEIGHT AND BALANCE

N/A

EFFECTIVITY:
SR20 Serials 1005 thru 1773
SR22 Serials 0002 thru 2380

10. MATERIAL INFORMATION

N/A

11. ACCOMPLISHMENT INSTRUCTIONS

A. Acquire necessary tools, equipment, and supplies.

Description	P/N or Spec.	Supplier	Purpose
Permanent Marker	-	Any Source	Mark measurements and outline
Grommet, Thin	MS21266-1N	Any Source	Protect retaining straps from abrasion at upper cut-out hole edges
Grommet, Thick	MS21266-6N	Any Source	Protect retaining straps from abrasion at lower cut-out hole edges
Rotary Tool	-	Any Source	Grind holes
Carbide Cutting Wheel	1¼ inch	Any Source	Grind holes
Epoxy Adhesive	5 Minute Epoxy	Devcon Danvers, MA 01923 800-933-8266	Adhere grommets
Isopropyl Alcohol	TT-I-735 Grade A or B	Any Source	Clean
Cotton Cloth (clean and lint free)	-	Any Source	Clean
Vacuum Cleaner	-	Any Source	Clean

B. Remove parachute assembly. (Refer to CMM 95-01)

C. Perform Inspection - CAPS Parachute Retaining Straps.

- (1) Inspect both sides of retaining straps (red) for abrasion.
- (2) If retaining straps are abraded or severed greater than 50% across the width of the strap, provide all written and photographic documentation of inspection to Cirrus Aircraft Field Service for disposition.

D. *SR20 Serials 1005 thru 1422, SR22 Serials 0002 thru 0820*: Remove access panel CB6. (Refer to AMM 06-00)

E. *SR20 Serials 1423 thru 1773, SR22 Serials 0821 thru 2380*: Remove access panel RE3. (Refer to AMM 06-00)

F. To prevent debris and components from falling into bottom of empennage, place catch cloth below CAPS compartment.

G. Modify upper CAPS compartment pass-through slots. **(See Figure 01)**

- (1) Locate aft upper pass-through slots in the CAPS compartment.
- (2) Measure 23.3 inches (59.2 cm) up from bottom of CAPS compartment and mark horizontal line.
- (3) Measure 2.9 inches (7.4 cm) left from center line of CAPS compartment and mark vertical line.
- (4) Measure 2.9 inches (7.4 cm) right from center line of CAPS compartment and mark vertical line.
- (5) Intersect vertical lines with horizontal line for location of cut-out holes.
- (6) Mark 1.375 ±0.030 inch (3.493 ±0.076 cm) circular outline at measured intersections.

<p>EFFECTIVITY: SR20 Serials 1005 thru 1773 SR22 Serials 0002 thru 2380</p>

Note: Ensure existing slot is completely contained within diameter of circular outline.

- (7) Position vacuum cleaner nozzle near work area to reduce dust/debris migration.
- (8) Using rotary tool with carbide cutting wheel, carefully grind circular outlines from CAPS compartment.
- (9) Deburr all edges of cut-out holes.
- (10) Solvent clean cut-out holes with isopropyl alcohol. (Refer to AMM 20-30)
- (11) Using epoxy adhesive, secure thin grommets to upper cut-out holes per adhesive manufacturer's application instructions.

H. Modify lower CAPS compartment pass-through slots. **(See Figure 01)**

- (1) Locate aft lower pass-through slots in the CAPS compartment.
- (2) Measure 4.6 inches (11.7 cm) forward from center of aft tooling holes and mark horizontal line.
- (3) Measure 2.9 inches (7.4 cm) left from center line of CAPS compartment and mark vertical line.
- (4) Measure 2.9 inches (7.4 cm) right from center line of CAPS compartment and mark vertical line.
- (5) Intersect vertical lines with horizontal line for location of cut-out holes.
- (6) Mark 1.375 ± 0.030 inch (3.493 ± 0.076 cm) circular outline at measured intersections.

Note: Ensure existing slot is completely contained within diameter of circular outline.

- (7) Position vacuum cleaner nozzle near work area to reduce dust/debris migration.
- (8) Using rotary tool with carbide cutting wheel, carefully grind circular outlines from CAPS compartment.
- (9) Deburr all edges of cut-out holes.
- (10) Solvent clean cut-out holes with isopropyl alcohol. (Refer to AMM 20-30)
- (11) Using epoxy adhesive, secure thick grommets to lower cut-out holes per adhesive manufacturer's application instructions.

I. Remove catch cloth from below CAPS compartment.

J. Using vacuum cleaner, remove all debris from baggage floor, CAPS compartment, and fuselage belly below the CAPS compartment.

K. *SR20 Serials 1005 thru 1422, SR22 Serials 0002 thru 0820*: Install access panel CB6. (Refer to AMM 06-00)

L. *SR20 Serials 1423 thru 1773, SR22 Serials 0821 thru 2380*: Install access panel RE3. (Refer to AMM 06-00)

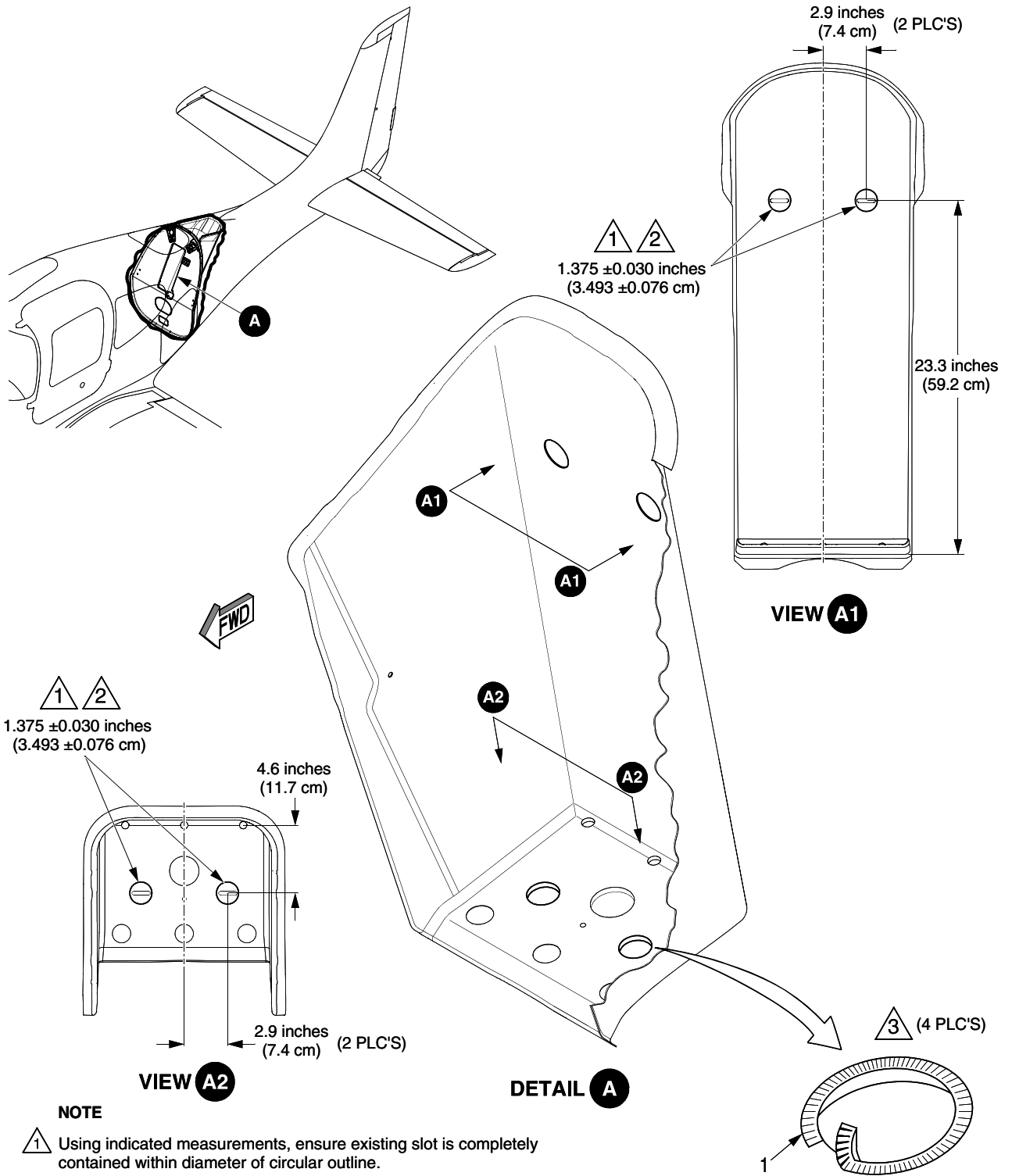
M. Visually inspect CAPS compartment for security, leaks, loose or missing hardware, moisture, and general condition.

N. Install parachute assembly. (Refer to CMM 95-01)

O. Complete airplane records by noting compliance with SB 2X-95-13 in Aircraft Logbook.

EFFECTIVITY:

SR20 Serials 1005 thru 1773
SR22 Serials 0002 thru 2380



- NOTE**
- 1 Using indicated measurements, ensure existing slot is completely contained within diameter of circular outline.
 - 2 Using rotary tool with carbide cutting wheel, carefully grind circular outlines from CAPS compartment.
 - 3 Bond grommets with 5 minute epoxy into each cut-out hole.

LEGEND
1. Grommet

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Figure 01
Pass-Through Slot Enlargement and Grommet Installation

EFFECTIVITY:
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