



# Product Modification Procedure

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Date: July 3, 2012

Procedure # 0712

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**Service Bulletin Ref:** LS 7-12-01

**Applicable Products:** All FLiK and FOX models: Lite and Ultralite with a Date of Manufacture between January 24, 2008 and September 27, 2011.

**Description:** Center (cell #4) A-line retrofit.

**Authorized Repairman:** FAA Senior or Master Parachute Rigger or foreign equivalent.

**Materials:** Replacement Center (cell #4) 525lb Dacron A-lines (2) and 400lb Dacron B-Lines (2).

**Machines:** Bartack, 42 stitch.

## Procedure

### 1.0 Disassembly

- 1.1 With a pair of scissors, carefully cut only the center A-lines (the forth (4th) and fifth (5th) lines when counting from the outside in either the right or left direction). Remove line from line attachment tab.
- 1.2 With the same scissors, carefully cut only the center B-lines (the forth (4th) and fifth (5th) lines when counting from the outside in either the right or left direction). These should be attached to the A-lines that were just removed. Remove line from line attachment tab.
- 1.3 Open the connector link on the front right riser group and remove the A/B line.
- 1.4 Open the connector link on the front left riser group and remove the A/B line.

### 2.0 Reassembly

- 2.1 Take the long line (525lb Dacron A-line) and find the finger-trapped end closest to the silver mark (the mark is not in the center of the line). Orient the finger-trap so that the side where the line re-enters itself is facing up (Fig. 1).
- 2.2 Fully insert line attachment tab into finger-trapped loop (Fig. 2).
- 2.3 Pass suspension line through the line attachment tab below the finger-trapped loop and tighten (Fig.'s 3,4,5, and 6).
- 2.4 Repeat 2.2 and 2.3 with the same finger-trap orientation as in step 2.1 with the short line (400lb Dacron B line)

- 2.5 Locate the silver mark on the long line (525lb Dacron A-line). Move six (6) to eight (8) inches away from the canopy (Fig. 7) and insert the finger-trapping tool into the middle of the Dacron weave.
- 2.6 Bunch the line onto the tool, towards the canopy, until you reach the silver mark. Push the tool out of the center of the line, while being careful not to separate the braid.
- 2.7 After ensuring that the shorter line (400lb Dacron B-line) is free of twists, insert the end into the finger-trapping tool (Fig. 9).
- 2.8 Grabbing the line at the base of the finger-trapping tool (Fig. 10), massage the longer A-line over the shorter B-line until the silver mark on the shorter B-line matches the mark on the longer A-line (Fig. 11).
- 2.9 Using your thumb and index finger, pinch the lines together at the marks and remove the finger-trapping tool. While still pinching the lines together at the marks, massage outer A-line away from the canopy until the line is smooth (Fig. 12).
- 2.10 Bartack the line just below the cascade with the B-line facing up (Fig. 11). The bartack should be oriented in the middle of the line with one end touching the silver mark and the other end moving away from the cascade. Ideally the bartack will start and stop in the center of the pattern, but it is not required to do so.
- 2.11 Attach the line to the appropriate connector link.

### **3.0 Inspection**

- 3.1 At the canopy, ensure that the modified lines are connected to the line attachment tabs in the same manner as the rest of the lines.
- 3.2 At the riser, ensure that all the lines are the same length (this ensures that the correct end of the long A-line was attached to the canopy).
- 3.3 Perform a continuity test to ensure that the modified lines do not pass through any other lines on the canopy.

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Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



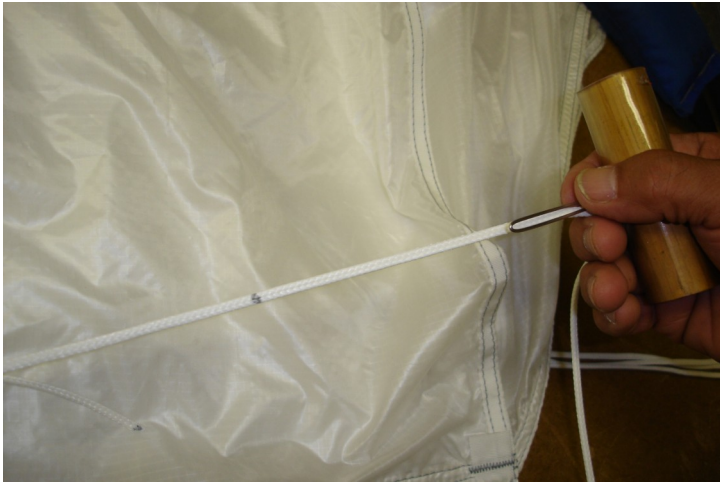


Fig. 7



Fig. 8

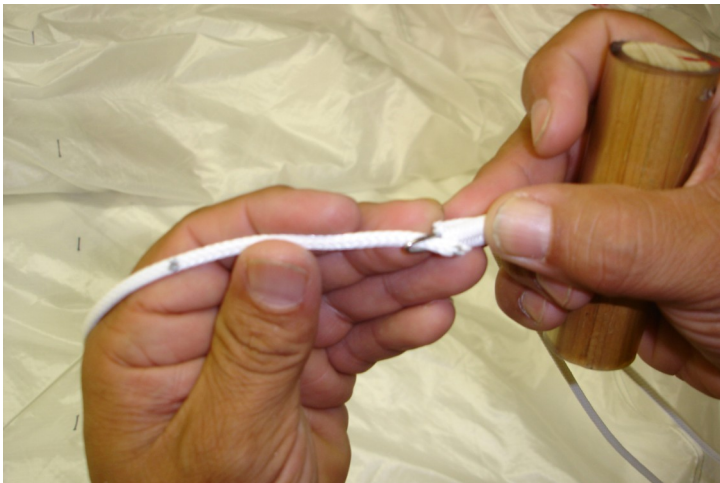


Fig. 9

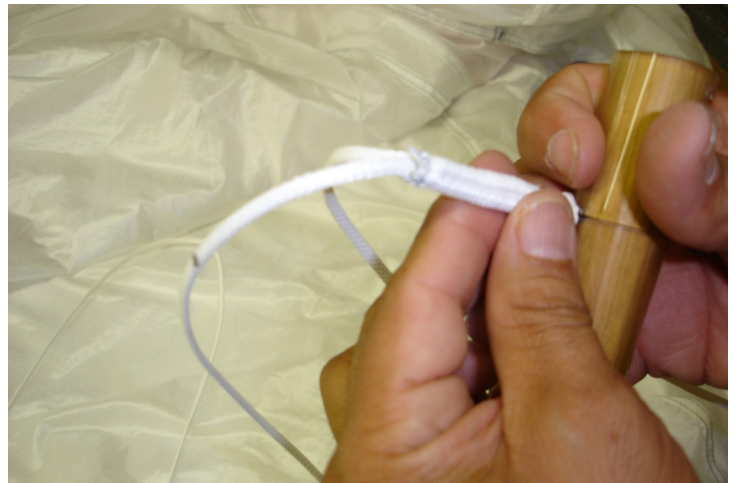


Fig. 10

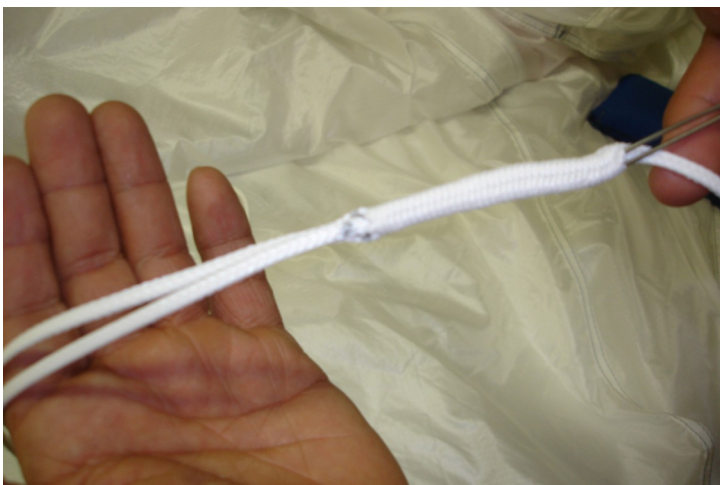


Fig. 11



Fig. 12

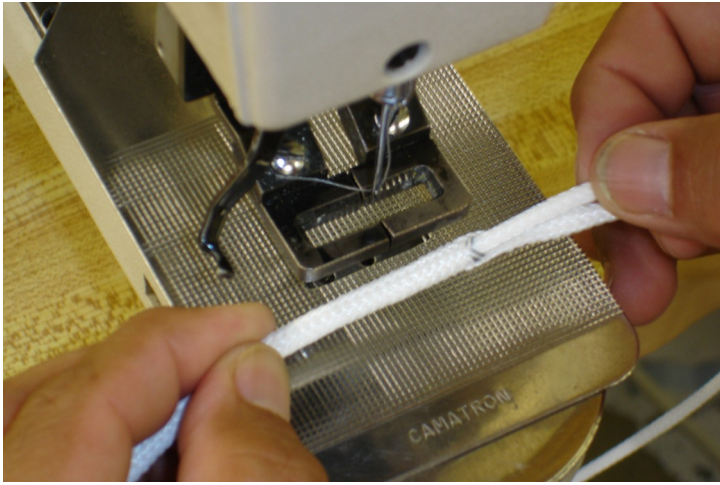


Fig. 13



Fig. 14