



# Product Modification Procedure

---

**PROCEDURE#:** 1243A Rev 1.2    **NUMBER OF PAGES:** 4    **DATE:** June 20, 2005

**SERVICE BULLETIN REF:**    SB-1530

**APPLICABLE PRODUCTS:**    1. All '94 TALON and CLASSIC PRO  
2. FLEXON manufactured after April 1, 1994

**DESCRIPTION:**    Full Metal 3-Ring Release Housing Retrofit

**AUTHORIZED REPAIRMEN:**    FAA Senior or Master Parachute Rigger  
or foreign equivalent

**MATERIALS:**    Supertack  
10" & 33" metal housings (For Std 3-ring)  
9" & 31" metal housings (For Mini 3-ring)

**MACHINES:**    N/A

**EQUIPMENT:**    Xacto knife or seam ripper  
Tacking needle  
Ruler- 6 inch  
Cable cutters, heavy duty (ie. FELCO C7)  
Cigarette lighter  
Felt tip marking pen

## **PROCEDURE**

### **1.0    DISASSEMBLY:**

- 1.1    Remove reserve canopy before starting. Note: This procedure is best done at the reserve repack.
- 1.2    Remove release handle and save.
- 1.3    Cut zig-zag stitching and remove both soft release housing ends.

### **2.0    REASSEMBLY:**

- 2.1    Install long release housing beginning at left 3-Ring. Insert long release housing into teflon-lined channel. (Fig. 1)
- 2.2    Pull housing out where it exits left shoulder pad - near reserve container. Leave approximately 6-7 inches of the housing exposed below the channel. **Note:** This housing will curve outboard passing under the type 8 harness webbing. Rotate the housing in the channel so that the flat side of the terminal will face the back of riser.
- 2.3    Route housing UNDER THE RESERVE RIPCORDER and straight across the top of reserve container.
- 2.4    Insert long housing into teflon-lined channel in right shoulder pad. (Fig. 2)

- 2.5 Pull long housing out bottom end of right shoulder pad approximately 7.5 inches or far enough to reach within 3/4 of chest strap.
- 2.6 Position the short housing outboard with the ends even at 1/2 to 3/4 inch above chest strap.
- 2.7 Tie bottom ends of housings together using Supertack. (Fig.3)  
Make sure the short housing is located to the wearer's right (outboard) and that the flat side of both the terminals face the back of riser.
- 2.8 With bottom ends of release housings 1/2 to 3/4 inch (12mm-18mm) above chest strap, tie both housings together near top edge of 3-ring cover (mud flap) leaving long (8" or longer) tails on the tacking cord. Slide housing ends into position under the 3-ring cover. Use the supertack tail to tack housings securely to the shoulder pad. The Supertack and knot should be hidden inside the 3-ring cover.
- 2.9 Tack the center of the long housing where it passes under the top reserve flap to the backpad. (Fig. 4) This ensures that it cannot get snagged during reserve deployment.
- 2.10 Measure and trim the release cables. **Note: This procedure is a two person job.**
  - 2.10.1 Install release cables through chest strap and metal release housings.
  - 2.10.2 Install main risers.
  - 2.10.3 Have one person put on the harness and sit in a chair while pulling upwards on the main risers to simulate being under the main canopy. (Fig. 5)
  - 2.10.4 The #2 person must pull the release cable ends up to remove slack.
  - 2.10.5 Using the ruler, mark the left side cable at 6" (15cm) from the 3-ring locking loop. (Fig. 6)
  - 2.10.6 Mark the right release cable at 5" (12.5cm) from the 3-ring locking loop.
  - 2.10.7 Pull release handle slowly. The mark on the right cable must reach the locking loop before the left mark reaches it's locking loop.
  - 2.10.8 Trim the release cables to correct lengths and melt ends with the lighter until smooth and tapered.

### **3.0 INSPECTION:**

- 3.1 Release housings tied together at handle end.  
Release housings tied together just below top edge of right side 3-ring cover.  
Release housings tacked to right shoulder pad. No float.  
Release housings 1/2 to 3/4 inches (12mm-18-mm) above chest strap. (Fig.7)
- 3.2 Release cables to correct lengths and side/side differential.
- 3.3 Cable ends finished and smooth.
- 3.4 Release cables routed through the chest strap and then into the cable housings.

### **CONTACT PERSON:**

SANDY R. REID, President  
RIGGING INNOVATIONS INC.  
4900 N. Tumbleweed Rd., Bldg 1,  
Eloy, AZ 85231, USA  
TELEPHONE: (520) 466-2655  
TELEFAX: (520) 466-2656  
E-mail: sandy@rigginginnovations.com



FIG. 1



FIG. 2



FIG. 3



FIG. 4



FIG. 5



FIG. 6

Figure 7: Early Flexon rigs will have teflon chanel sewn flat so that the mouth of the channel is not large enough to allow the metal release housing to be inserted. On these rigs you must unpick the straight stitch enough so the housing will pass into the channel. It will probably be necessary to unpick the stitches at both shoulders.



FIG. 7