

PSB#112285  
Adding a Drogue System to the Vector Tandem  
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ADDING A DROGUE SYSTEM TO THE TANDEM VECTOR Introduction

This document provides the procedures for installing a drogue to the Relative Workshop Tandem Vector.

This work must be done by an FAA Master Rigger or loft. Alternately, the owner may ship his Tandem Vector container ONLY to the Relative. Workshop for the installation. There is a charge for this service.

EQUIPMENT AND MATERIALS REQUIRED Bar-tack or zig-zag machine Single needle machine

Class 7 (harness machine) New large Spandex pouch Two drogue release handles Drogue 3-Ring riser

L-bar connector link

Drogue attachment loop (Type 8 webbing) Drogue chute and bridle

Snips or seam ripper

All thread must conform to MIL-T-7807 (nylon). PROCEDURES

Part 1: Replacing the Pouch

1) Remove both the main and the reserve from the rig.

2) Remove the stitching holding the bottom main container corners together. Cut only the stitching that holds the two pieces together - NOT the stitching on the binding tape. Also remove the small Spandex pouch on the bottom flap, the square piece of webbing with the two snaps and the Velcro running perpendicular to the pouch. Be careful not to snip any material; cut only stitches.

3) Remove the stitching holding the bottom of the backpad to the container. it should not be necessary to go up around the corners. 4) Place the drogue attachment loop on top of the junction of the diagonals and back strap and secure with a box X pattern using nylon 5-cord so that the loop will extend 1-3/4 inches from the bottom of the backpad (this will be approximately 2-1/4" from the backstrap). This is an important measurement, so lay the backpad down and measure before you sew the loop on. Refer to illustration #1.

NOTE: The box X stitch pattern passes through the drogue attachment loop, the diagonals, the backstrap AND the pack tray. The stitch is visible from the inside of the main container.

5) Resew the backpad with one pass of double F or three passes of E thread.

6) Now position the new large Spandex pouch on the main flap so that it is centered from side to side and flush with the bottom of the backpad (it will cover most of the flap). Sew it down with a single needle machine with double F or three times with E thread. Then bartack or zig-zag, as-shown in drawing #2.

7) Sew the corners of the main container back together. The stitching should go up the sides and about one inch around the corner. Double back stitching at each end for security.

Part 2: Rigging the Drogue

1) Attach the drogue riser to the drogue attachment loop using the L-bar (be sure to tighten both screws), so that the 3-Ring opens away from the the rig. Thread the drogue riser up through the slot in the bottom of the pouch. The drogue riser will be inside the back/inner part of the pouch.

2) Thread the yellow drogue release cable through the slot on the closed side of the pouch and through the channel on the inner part of the pouch. Then thread it through the channel on the back of the drogue riser.

3) Now thread the white tubular nylon (inner bridle) that comes out of the Kevlar drogue bridle (outer bridle) through the grommet in the top of the bag and attach to the canopy as you would any pilot chute.

For the correct installation configuration, see page 2 of Jumping the Tandem Vector Drogue System.

Illustration 1 on page 4 of the Jumping the Tandem Vector Drogue System shows the rig packed with the drogue system set up correctly. The very end of the release cable goes inside the channel in the drogue bridle in the same place the white tubular comes out.

Refer to Jumping the Tandem Vector Drogue System for packing and use. Call the Relative . Workshop at (904) 736-7589 if you have any questions whatsoever.

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ILLUSTRATION #1



