Product Service Bulletin

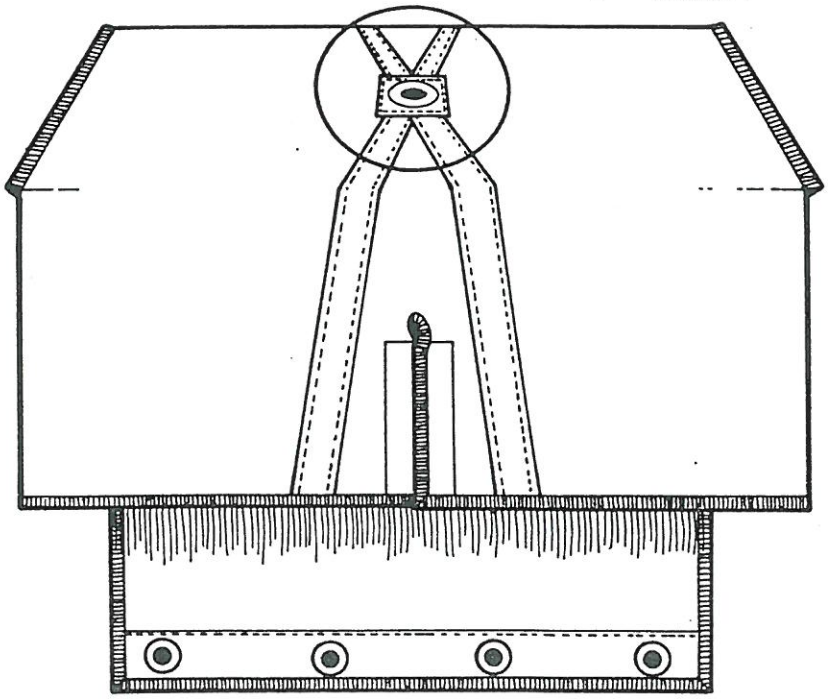
PSB#N/A

Modifying the Main Deployment Bag and Harness Diagonals for Drogue Use

N/A

Reinforcing the Main Deployment Bag for Drogue Use

The drogue pulls the bag out of the container with more force than a 36' pilot chute. Because of this, it is necessary to install a protective ring on the inside of the main deployment bag in order to keep the grommet in the top from being pulled out or deformed during deployment. For further protection, the ring is installed so that there is a slight "pooch" in between the ring and the grommet, so that the ring takes the load, instead of the grommet.



1) Before starting, set the grommet one last time to make sure it is firmly in place. Once the ring has been installed, it will be impossible to reset the grommet if it starts to pull loose.

2) Turn the bag inside out. The ring must be sewn to the INSIDE of the bag.

3) Illustration #3 shows the inside center of the bag to scale. In order to get just the right amount of pooch, first line up the outside of the ring with the edge of the reinforcing webbing that the grommet is set in. Sew the square weave on the ring to the bag. (it should be right on top of the tape reinforcing bands. If it isn't then you're doing it sideways on the bag instead of from front to back as shown.) Use either two bartacks as shown or a box-X pattern.

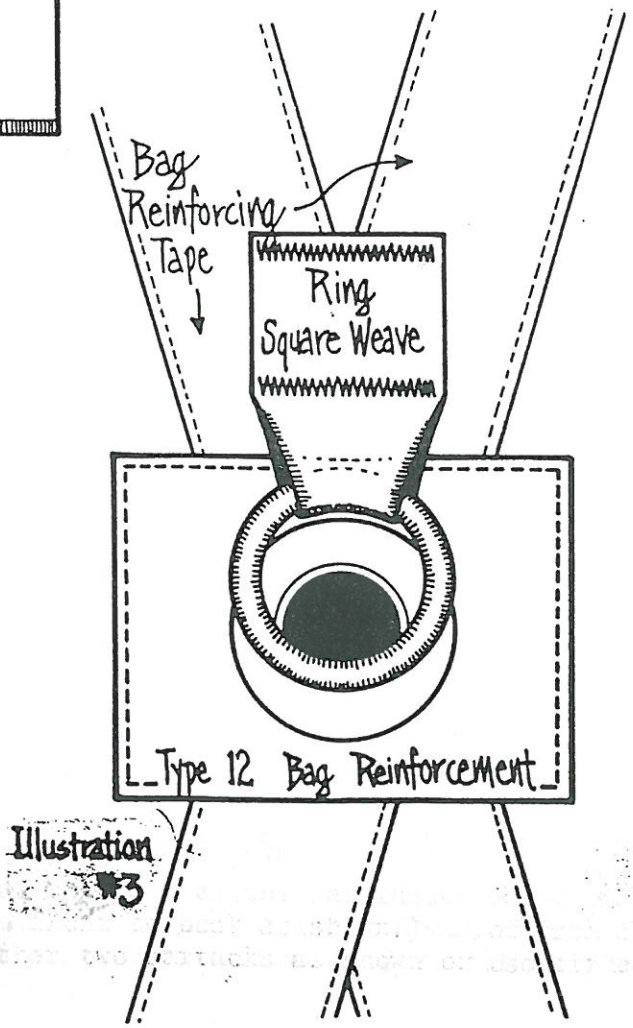
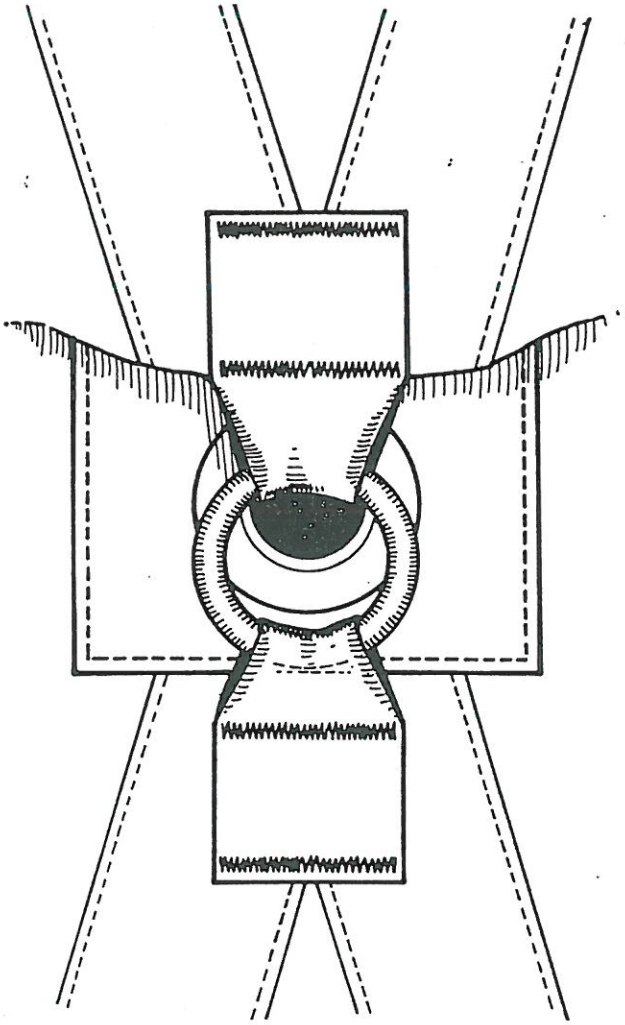
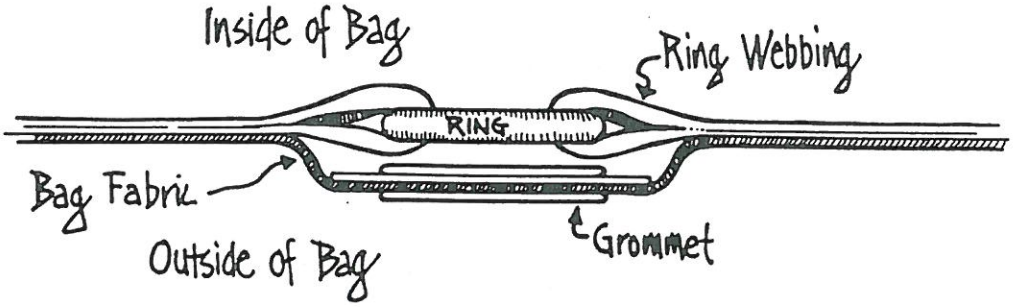


Illustration #3



4) Position the ring on the other side the same way by lining up the edge of the ring with the edge of the reinforcing webbing. To get the ring lined up, you will have to pull the other side over as shown. This is what makes the "pooch".

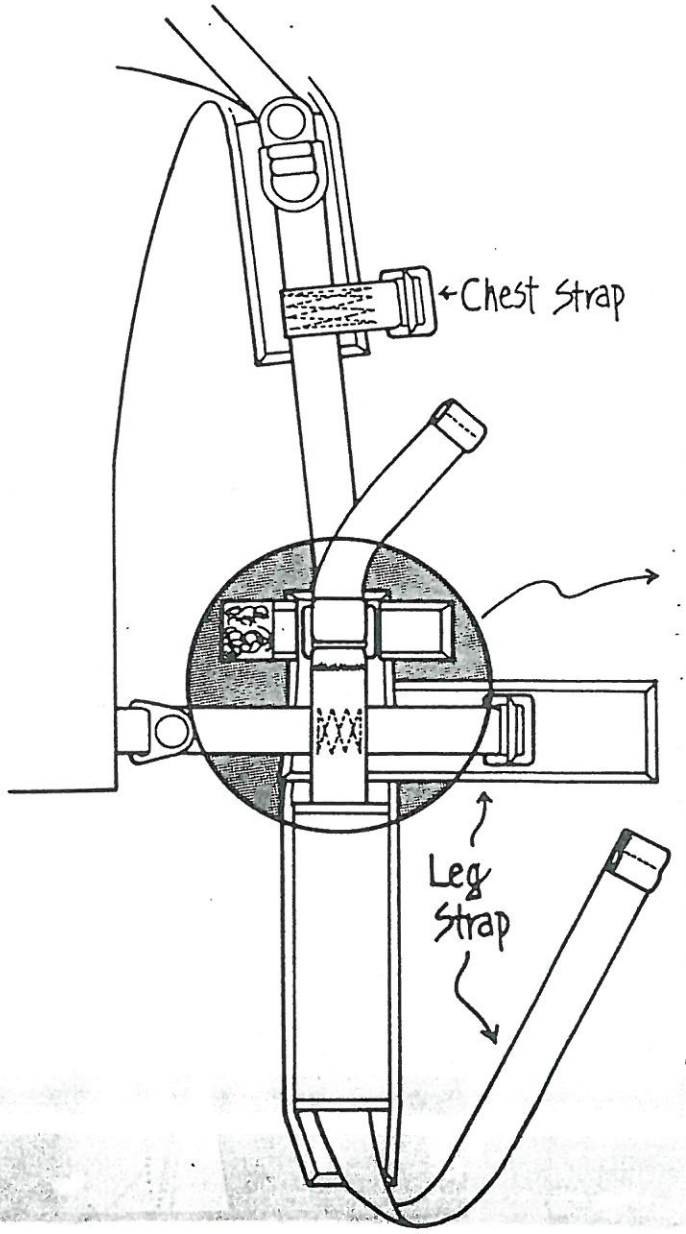
5) Illustration #5 shows a side view of this bag conversion. Note that the pooch takes all stress off the more fragile grommet and transfers it to the sturdier ring.



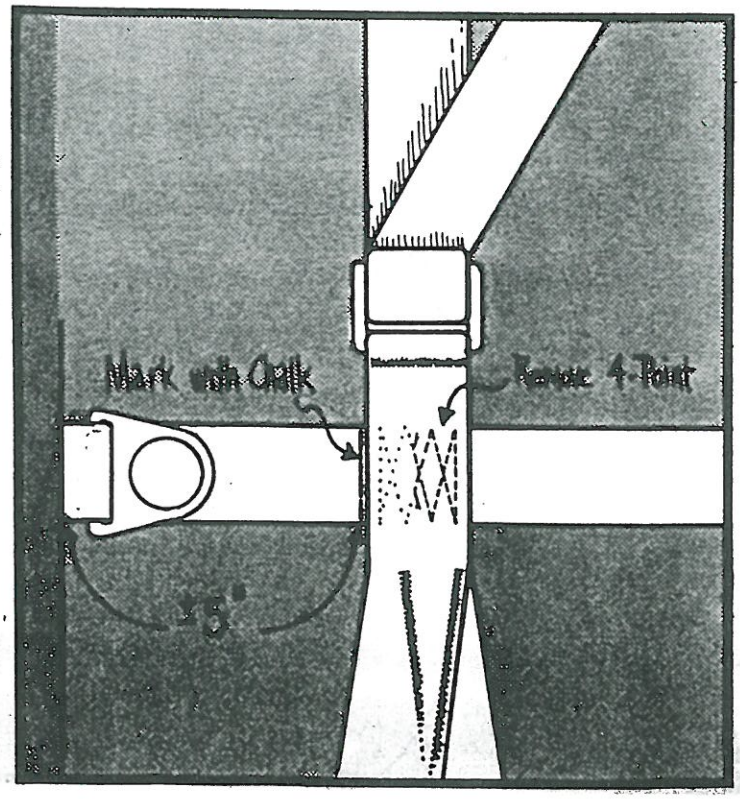
Modifying the Diagonals for Drogue Installation

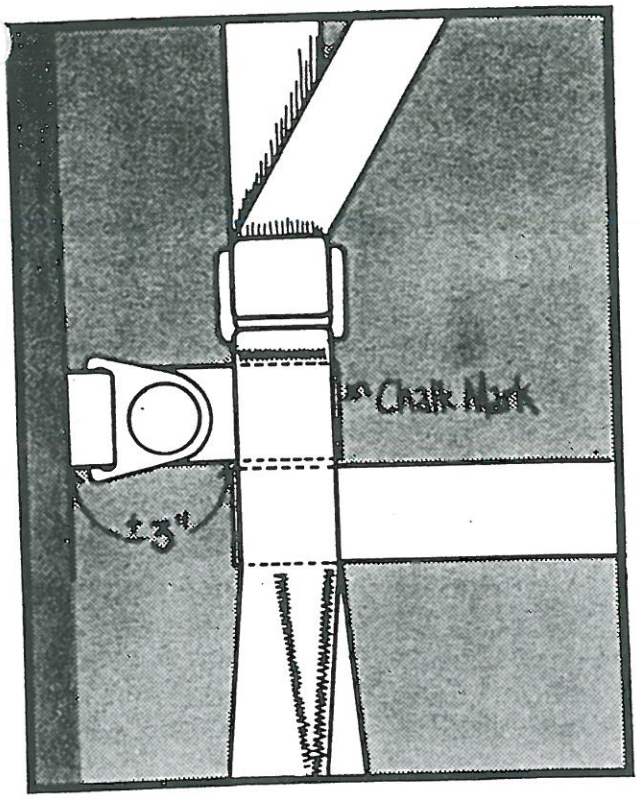
THIS MODIFICATION MAY ONLY BE DONE BY A QUALIFIED MASTER RIGGER.

On some earlier models of the tandem Vector, the diagonal goes straight through the main lift webbing. This set up allows the rig to pull off the back slightly when the drogue is deployed in freefall. This modification, while NOT MANDATORY, will put a drogue falling pair in a slightly more head up attitude and keep the rig closer to the back.

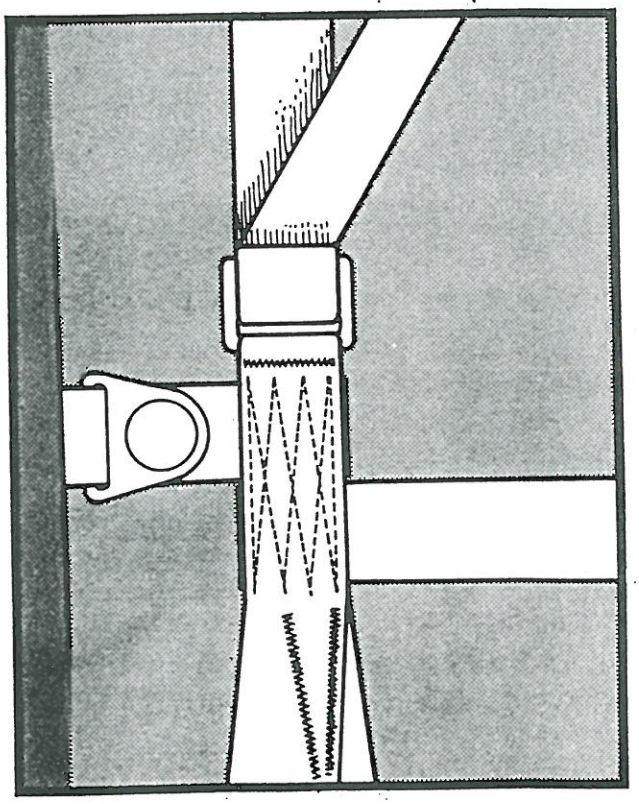


1) Remove the leg comfort pads. Mark the diagonal with chalk along the side of the main lift web as shown. Remove the 4-point stitching being very careful not to cut the webbing itself. Next remove the bartacks directly above and below the 4-point.





2) When all stitching is removed, pull the diagonal loose and cut with a hot knife along the chalk line. Position the rig side of the diagonal at the top, with the leg strap piece below as shown. Both should be in between the two pieces of main lift webbing. This may be a very tight fit as the space between the main lift adjuster at the top and the place where the two pieces of webbing split for the leg pads at the bottom is limited. In some cases, the two pieces of diagonal may have to be overlapped just a bit.



3) Sew a long 4-point as shown with 5-cord nylon on a Singer 7 class or equivalent machine. When this mod is finished, you can see that the diagonal has been raised and shortened, and the leg strap lowered, meaning the rig will be more snug on the back and will also ride just a little higher.

Reinstall the leg comfort pads. On some models, the small hardware pad will need to be repositioned before the pad assembly is sewn back onto the harness.

ENGINEERING CHANGE ORDER

Date: 01/10/00

Description of Change: Deletion of 1" Type 3 cross support tapes from Sport main bags

Models Affected: All VII, VIII sport and student main bags, Micron main bags

Sub-assembly Process Affected:

Main bag preparation prior to binding

Requested Date of Implementation: 01/10/00

Dwg. No.: All VII, VIII, Micron main bag patterns

Requested By: Production

Notes:

The deletion of the 1" Type 3 cross support tapes from the above mentioned main bags will simplify their construction without compromising their structural integrity. Manual labor and materials usage will be reduced per unit with the new construction method.

Approval: _____ **(Production)**

_____ **(Quality Control)**

_____ **(Engineering)**

Date Implemented: 1-10-00

Starting Production No: NA

Starting Serial No: NA