

## Tail Gate

**Overview:** The Tail Gate is a device used to help minimize the occurrence of the tail inversion malfunction associated ram air canopies deployed with slider down / removed. It was designed by Basic Research, Inc. of Perris, California.

The Tail Gate is intended for use on slider down / removed deployments ONLY. Do not attempt to use the Tail Gate in conjunction with a slider.

**Use:** The Tail Gate attaches to the center (left) C-line. It's exact location on this line should correspond with a point as close as practical to the trailing edge of the canopy when the deployment brakes are set.

The Tail Gate is used to trap a series of lines and reef their deployment at line stretch. The precise number of lines is variable. Different configurations have been used ranging from 12 to 16 lines. At a minimum, all center C-lines , D-lines all upper control lines (usually 8) should be included. The C-Line to which the Tail Gate is attached MUST be inside the Tail Gate. Do not rely on the inserted line to take the load.

12 Line set up:

- 2-center C-Lines
- 2- center D-Lines
- 8- upper Control Lines

**Closing the Tail Gate:** Use a standard skydiving (for micro line™) rubber band cut in half length wise. These rubber bands are typically 1.25" (3.2cm) long when measured flat. Two to three wraps of the rubber band seem to work best. If the Tail Gate is too loose it will have no effect. Too tight and the reefing of the canopy's aft section will be extreme. You will lose the rubber band when the canopy deploys.

**Potential Problems::** The Tail Gate will show wear on the inside surface due to friction between it and the suspension lines. The lines show no visible wear.

Excessive rubber band wraps have lead to hard opening and may cause problems with deployment heading.

Tying the rubber band to one side of the Tail Gate in an effort to avoid losing it can cause suspension or steering lines to become temporarily trapped in the tail gate. This method will also give less consistent results.

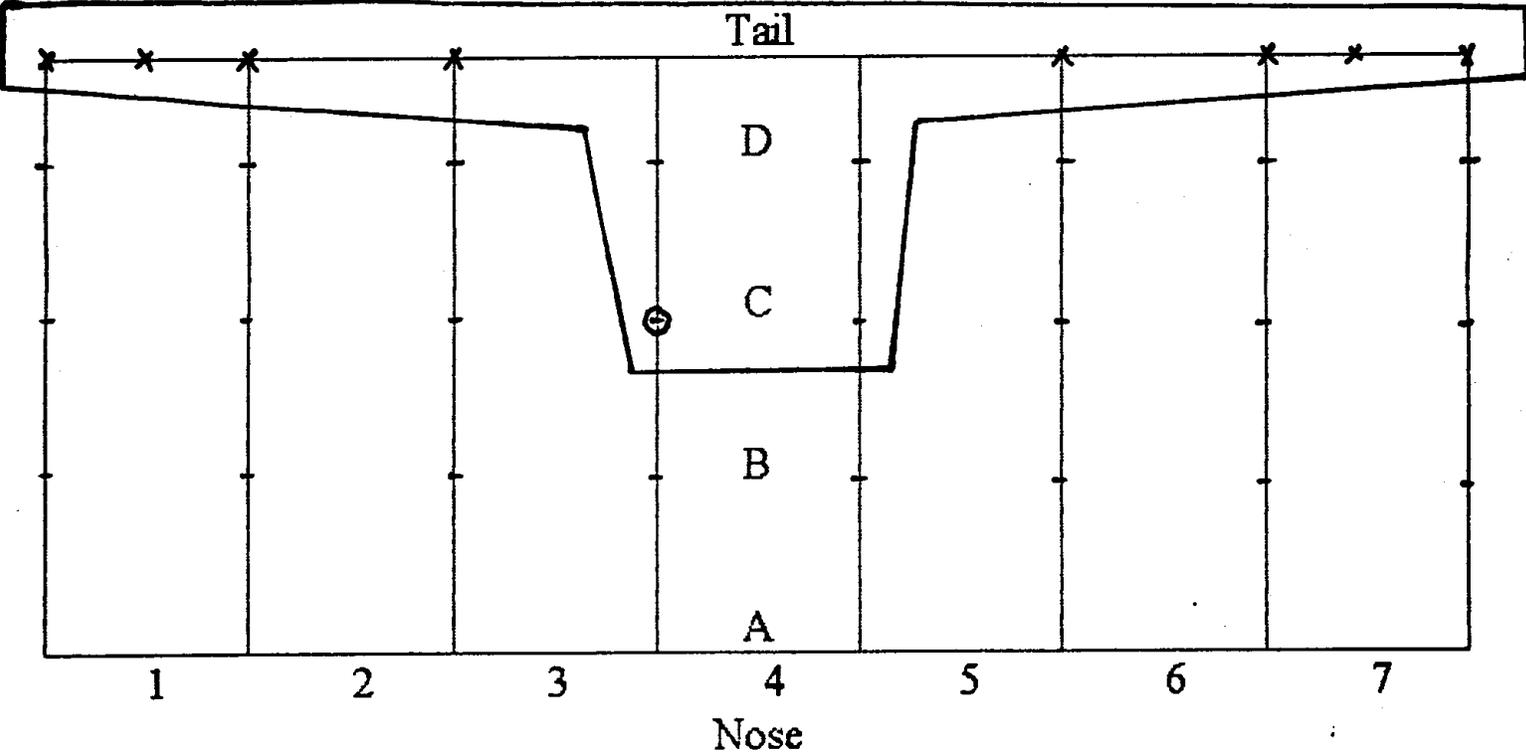
Keep in mind the Tail Gate is new. Please note your results and deployment configuration on each jump. If problems, damage or other trends develop please let us know.

Thanks

### ***Consolidated Rigging, Inc.***

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12 Lines of control



- x = Control line attachments
- = Line attachments
- o = Tail Gate attachment