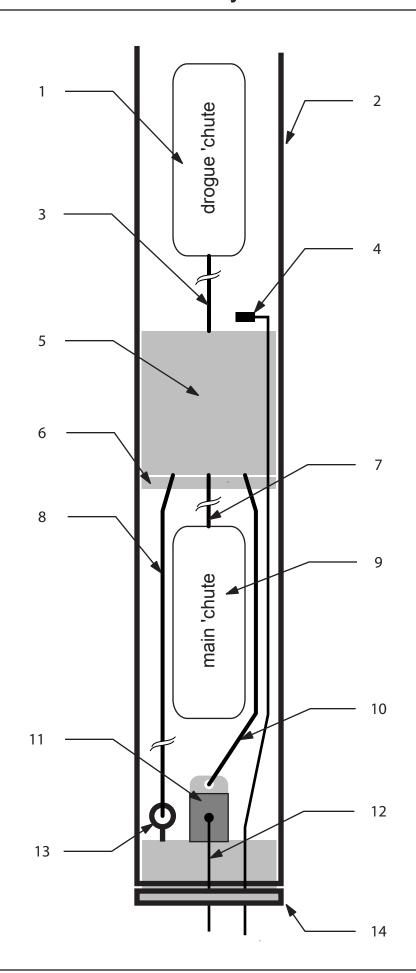
## Al Gorilla Recovery



## **Components**

- 1. drogue 'chute (Rocketman R3C)
- 2. recovery airframe (30" long, 2.75" ID)
- 3. drogue bridle (20'TN)
- 4. droque ejection charge
- 5. piston for dual deployment separation
- 6. ring to prevent piston from moving aft
- 7. main 'chute bridle (20'TN)
- 8. piston bridle (20'TN)
- 9. main 'chute (Rocketman R3C)
- 10. piston retainer (12" cable)
- 12. main charge (to PRM)
- 11. blacksky PRM II
- 13. eyebolt anchored to coupler
- 14. threaded coupler to electronics bay

## **Deployment Sequence**

- At apogee, drogue charge fires to pop nose cone and eject drogue 'chute. Piston is retained in airframe by piston retainer (#7).
- 2. At low-altitude point, PRM fires and releases piston retainer.
- 3. Weight of rocket descending on drogue 'chute pulls piston and main 'chute out of airframe. (Main 'chute bridle is Z-folded.)
- 4. Piston forms junction of a "Y" bridle with two parachutes.
- Rocket descends quickly, but in a controlled manner on dual R3Cs. (Recovered weight will be less than 20lbs.)