



Components

1. drogue 'chute (Rocketman R3C)
2. recovery airframe (30" long, 2.75" ID)
3. drogue bridle (20' TN)
4. drogue 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

1. 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.
5. Rocket descends quickly, but in a controlled manner on dual R3Cs. (Recovered weight will be less than 20lbs.)