6” Comprehensive Parts List

Reference for 8” and 10”

# Avionics

* Pressure transducer, what kind????
* Accelerometer (H3LIS331DLTR) x 2
* Gyroscope (ITG-3200) x2
* RMRC - 900MHz-1.3Ghz Receiver w/1258 with RMRC Comtech Tuner (V3-900MHZ-1.3GHZRX)
* RMRC - 1.3GHz 1500mW Transmitter (V3-1500MW1300MHZTX-US-BLACK)
* SC2000 600TVL D-WDR DNR Board Camera SONY Super HAD CCD for FPV
* Generic Portable 7"" TFT LCD Digital Color Screen Monitor
* HMT2 <http://www.radiometrix.com/files/additional/HMT2.pdf>
* Data Receiver ???
* Antenna Hand Made
* Beaglebone Black
* Xbee Transmitter
* Big Red Bee
* Raven

# SLV

### Fins

* Fins Al 6061-T6, 4 fin can ordered from Mike Fisher<[binderdesignrocketry@gmail.com](mailto:binderdesignrocketry@gmail.com)> http://binderdesign.com/store/page13.html
* JB weld Adhesive for fin fillet (Amazon)

### Recovery

* Bulkhead for recovery system
  + Manufacture our own out of Aluminum (Jared-PL)
* Parachute-Main
  + “RocketMan Parachute” - 10’ Standard Parachute (http://www.the-rocketman.com/chutes.html)
* Parachute-Drogue
  + “Spherachutes” 18" Heavy Duty Spherachute (http://spherachutes.com/items/drogues/18-in-hd-detail.htm)
* Recovery system…
  + Quick Links
  + U-Bolts
  + Shockcords

### Nosecone

* Nosecone, filament wound w/ metal (6” Von Karman 5:1) from http://performancehobbies.com/secure/store.aspx?groupid=200

# Propulsions

* Graphite throat for nozzle - FE250 lathed from 4x4x6” block for 6” static fire from **Kevin Anderson** <[KevinA@etm-lb.com](mailto:KevinA@etm-lb.com)>, bought G330 (higher grade, more density needed) for 6” flight, G330 will be needed for all further flights as well
* Phenolic carrier for nozzle - “Machinable Garolite (LE)” from McMaster-Carr, lathed from multiple blocks 1.5” thick epoxied onto each other, could possibly buy rod version instead for future as it will be one piece : http://www.mcmaster.com/#garolite/=121yfgj
* Aluminum carrier for nozzle - from 6061-T6 stock at IMS, lathed to design
* Forward Bulkhead, Aluminum 6061-T6 stock at IMS lathed to design
* Casting Tubes ( Paper Reinforced XX Tubing 5.375 OD x 5.187 ID x .093 Wall 9 Feet Min Order ) ordered from <http://k-mac-plastics.com/xx-laminate-tubes.htm>
* Phenolic Liners (5.375 ID x .125 Wall) ordered from: Scott Kormier of Loki Rocketry
* Aluminum 6061-T6 motor casing- 6” OD, 3/16”(.1875) wall thickness: drilled holes in side for pin slots
* Pull Out Dowel Pins from Mcmaster-Carr for nozzle and forward bulkhead
  + http://www.mcmaster.com/#standard-dowel-pins/=121yho0

GENERAL: Aeropoxy+Filler

White Lithium Grease

multipurpose (silicone) orange <http://www.mcmaster.com/#o-rings/=121yjuk> (when in doubt lower 0 rings size)

Igniters (from Jon Newman)