## USLI PARTS LIST (rocket/tare cost)

Rocket

Part:	Price	<u>Qty.</u>	<u>Total</u>
Body Tube (FTEX 2 3.91"X4.00")	\$18.96/ft	9 ft	\$170.64
Nosecone (FNC 4.0-4-1 Ft 3.91 17" ogive)	\$55.00	1	\$55.00
Coupler (CT-3.91" 10" Long)	\$13.61	4	\$54.44
FR-4 Fiberglass Sheeting (0.187")	\$24.00/sqr.ft	3 sqr.ft	\$72.00
Centering Rings (CR 3.91")	\$4.20	2	\$8.40
Bulkheads (BP 3.9FT-3.91 <sup>1</sup> /2" ply.)	\$2.10	4	\$8.40
Motor Tube (FT-3.00 3.005"X3.129" 20")	\$18.75	1	\$18.75
Drogue Chute (36")	\$35.00	1	\$35.00
Main Chute (96")	\$65.00	1	\$65.00
Shock Cord (1" thick)	\$0.50/ft	40ft/2	\$20.00
Kevlar Patch (9")	\$14.00	1	\$14.00
Kevlar Patch (16")	\$19.00	1	\$19.00
	TOTAL:		\$540.63
Avionics/Electronics			
Part:	Price	<u>Qty.</u>	<u>Total</u>
PerfectFlight MiniAlt/WD	\$99.95	1	\$99.95
G-Wiz HCX/50	\$235.95	2	\$235.95
GPSFlight (ST900e)	\$695.00	1	\$695.00
GPS-P25 (Patch antenna)	\$30.00	1	\$30.00
RPSMA900 (trans. antenna)	\$18.00	1	\$18.00
Li-Po Battery Pack	\$150.00	1	\$150.00
9V Dry Cell	\$2.99	4	\$11.96
	TOTAL:		\$1240.86
Miscellaneous			
Part:	Price	<u>Qty.</u>	<u>Total</u>
Strap 3"	\$4.29	1	\$4.29
Eyebolts	\$1.29	2	\$2.38
Epoxy Slow Cure	\$14.49	1	\$14.49
Epoxy 5 Min	\$16.99	1	\$16.99
JB Weld	\$6.79	1	\$6.79
Socket Head Screws 1"	\$0.65	2	\$1.30
Socket Head Screws <sup>1</sup> /2"	\$0.23	2	\$0.46

Washers   \$0.17   8   \$1     Wing-nuts   \$0.85   3   \$2     Stop Nuts   \$0.35   3   \$1     Metal Screws   \$0.15   9   \$1     Hex Nuts   \$0.23   6   \$1     Flat Head Machine Screws   \$0.23   6   \$1     Split Lock Washers   \$0.23   6   \$1     Pan Head   \$0.23   3   \$0     Threaded Round Rod 3' Section   \$2.89   1   \$2     Pyro Charge Cup   \$4.39   1   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Hex Nuts   \$0.19   9   \$1     Sandpaper various grit   \$1.29   \$5   \$6     Sandpaper various grit   \$0.89   \$4   \$39   \$1     Tape Blue Mask 1.87" x 60yds   \$4.99   \$1   \$4     Tape Mask   .94" x 60yds   \$1.49   \$1   \$1     Dust Mask 2pk   \$6.99   \$1   \$6   \$6   \$1     Frice   Qty.   To     Sparrow1 (Peter)	60.80
Stop Nuts   \$0.35   3   \$1     Metal Screws   \$0.15   9   \$1     Hex Nuts   \$0.15   9   \$1     Flat Head Machine Screws   \$0.23   6   \$1     Split Lock Washers   \$0.23   6   \$1     Pan Head   \$0.23   3   \$0     Threaded Round Rod 3' Section   \$2.89   1   \$2     Pyro Charge Cup   \$4.39   1   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Sandpaper various grit   \$1.29   \$5   \$6     Sandpaper various grit   \$0.89   \$1   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$4     Tape Blue Mask 1.00" x 60yds   \$4.99   \$4   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   \$7   \$7     Sparrow3 (Quagmire)   \$134.22   \$1   \$1 <t< td=""><td>51.36</td></t<>	51.36
Stop Nuts   \$0.35   3   \$1     Metal Screws   \$0.15   9   \$1     Hex Nuts   \$0.15   9   \$1     Flat Head Machine Screws   \$0.23   6   \$1     Split Lock Washers   \$0.23   6   \$1     Pan Head   \$0.23   3   \$0     Threaded Round Rod 3' Section   \$2.89   1   \$2     Pyro Charge Cup   \$4.39   1   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Sandpaper various grit   \$1.29   \$6   \$6     Sandpaper various grit   \$0.89   \$1   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   \$4   \$4     Tape Blue Mask 1.00" x 60yds   \$4.99   \$4   \$1     Dust Mask 2pk   \$6.99   \$6   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   \$7   \$7     Sparrow3 (Quagmire)   \$134.22   \$1   \$1	52.55
Metal Screws   \$0.15   9   \$1     Hex Nuts   \$0.15   9   \$1     Flat Head Machine Screws   \$0.23   6   \$1     Split Lock Washers   \$0.23   6   \$1     Pan Head   \$0.23   3   \$0     Threaded Round Rod 3' Section   \$2.89   1   \$2     Pyro Charge Cup   \$4.39   1   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Sandpaper various grit   \$1.29   \$6   \$6     Sandpaper various grit   \$0.89   \$1   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   \$4     Tape Blue Mask 1.00" x 60yds   \$1.49   \$1     Dust Mask 2pk   \$6.99   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   \$7   \$7     Sparrow3 (Quagmire)   \$134.22   \$1   \$1     Hook-up wire (22 gauge)	51.05
Hex Nuts   \$0.15   9   \$1     Flat Head Machine Screws   \$0.23   6   \$1     Split Lock Washers   \$0.23   6   \$1     Pan Head   \$0.23   3   \$0     Threaded Round Rod 3' Section   \$2.89   1   \$2     Pyro Charge Cup   \$4.39   1   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Hex Nuts   \$0.19   9   \$1     Sandpaper various grit   \$1.29   5   \$6     Sandpaper various grit   \$0.89   5   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$8     Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7.     Sparrow2 (Cleveland)   \$128.26   \$1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6	51.35
Split Lock Washers   \$0.23   6   \$1     Pan Head   \$0.23   3   \$0     Threaded Round Rod 3' Section   \$2.89   1   \$2     Pyro Charge Cup   \$4.39   1   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Hex Nuts   \$0.19   9   \$1     Sandpaper various grit   \$1.29   5   \$6     Sandpaper various grit   \$0.89   5   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$8     Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask   .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     Frice   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   1   \$1     Sparrow3 (Quagmire)   \$134.22   \$1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   <	51.35
Pan Head   \$0.23   3   \$0     Threaded Round Rod 3' Section   \$2.89   1   \$2     Pyro Charge Cup   \$4.39   1   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Hex Nuts   \$0.19   9   \$1     Sandpaper various grit   \$1.29   5   \$6     Sandpaper various grit   \$0.89   5   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$8     Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask   .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   1   \$1     Sparrow3 (Quagmire)   \$134.22   \$1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   <	51.38
Pan Head   \$0.23   3   \$0     Threaded Round Rod 3' Section   \$2.89   1   \$2     Pyro Charge Cup   \$4.39   1   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Hex Nuts   \$0.19   9   \$1     Sandpaper various grit   \$1.29   5   \$6     Sandpaper various grit   \$0.89   5   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$8     Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask   .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   1   \$1     Sparrow3 (Quagmire)   \$134.22   \$1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   <	51.38
Pyro Charge Cup   \$4.39   1   \$2     Batteries 9V 2pk   \$6.97   3   \$2     Hex Nuts   \$0.19   9   \$1     Sandpaper various grit   \$1.29   5   \$6     Sandpaper various grit   \$0.89   5   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$8     Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask   .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   \$1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	60.69
Batteries 9V 2pk   \$6.97   3   \$2     Hex Nuts   \$0.19   9   \$1     Sandpaper various grit   \$1.29   5   \$6     Sandpaper various grit   \$0.89   5   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$8     Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask   .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   \$1   \$1     Sparrow3 (Quagmire)   \$134.22   \$1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	52.89
Hex Nuts   \$0.19   9   \$1     Sandpaper various grit   \$1.29   5   \$6     Sandpaper various grit   \$0.89   5   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$8     Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask   .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   1   \$1     Sparrow3 (Quagmire)   \$134.22   \$1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	52.19
Sandpaper various grit   \$1.29   5   \$6     Sandpaper various grit   \$0.89   5   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$8     Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask   .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   1   \$1     Sparrow3 (Quagmire)   \$134.22   \$1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	520.91
Sandpaper various grit   \$0.89   5   \$4     Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$8     Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	51.71
Tape Blue Mask 1.87" x 60yds   \$8.99   1   \$8     Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   \$1   \$1     Sparrow3 (Quagmire)   \$134.22   \$1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	6.45
Tape Blue Mask 1.00" x 60yds   \$4.99   1   \$4     Tape Mask .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Payload     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   1   \$1     Sparrow3 (Quagmire)   \$134.22   1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	64.45
Tape Mask .94" x 60yds   \$1.49   1   \$1     Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Payload     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   1   \$1     Sparrow3 (Quagmire)   \$134.22   1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	8.99
Dust Mask 2pk   \$6.99   1   \$6     TOTAL:   \$1     Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   1   \$1     Sparrow3 (Quagmire)   \$134.22   1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	54.99
TOTAL:   \$1     Payload   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$7     Sparrow2 (Cleveland)   \$128.26   1   \$1     Sparrow3 (Quagmire)   \$134.22   1   \$1     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	51.49
Payload   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$75     Sparrow2 (Cleveland)   \$128.26   1   \$11     Sparrow3 (Quagmire)   \$134.22   1   \$11     Hook-up wire (22 gauge)   \$6.00   1   \$69     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	6.99
Part:   Price   Qty.   To     Sparrow1 (Peter)   \$74.83   1   \$77     Sparrow2 (Cleveland)   \$128.26   1   \$11     Sparrow3 (Quagmire)   \$134.22   1   \$11     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	5109.57
Sparrow1 (Peter)   \$74.83   1   \$75     Sparrow2 (Cleveland)   \$128.26   1   \$11     Sparrow3 (Quagmire)   \$134.22   1   \$11     Hook-up wire (22 gauge)   \$6.00   1   \$6     9V Battery   \$2.99   3   \$8     Mounting Board (3/4" bass.)   \$3.00   1   \$3	
Sparrow2 (Cleveland)\$128.261\$1Sparrow3 (Quagmire)\$134.221\$1Hook-up wire (22 gauge)\$6.001\$69V Battery\$2.993\$8Mounting Board (3/4" bass.)\$3.001\$3	<u>Fotal</u>
Sparrow3 (Quagmire)\$134.221\$1Hook-up wire (22 gauge)\$6.001\$69V Battery\$2.993\$8Mounting Board (3/4" bass.)\$3.001\$3	574.83
Hook-up wire (22 gauge)\$6.001\$69V Battery\$2.993\$8Mounting Board (3/4" bass.)\$3.001\$3	5128.26
9V Battery\$2.993\$8Mounting Board (3/4" bass.)\$3.001\$3	5134.22
Mounting Board (3/4" bass.) \$3.00 1 \$3	6.00
	8.97
TOTAL: \$3	63.00
	355.28
<b>Grand Total</b> (w/o Engine and pyro-technicals): \$2	62,246.34