

29mm Single-Use Motors	AT SU	AT SU	AT SU	AT/PML SU	AT SU	AT/PML SU	AT/PML SU	AT SU	AT SU											
Motor Burn Time>	4.00 sec.	2.20 sec.	3.40 sec.	1.60 sec.	2.20 sec.	3.03 sec.	1.42 sec.	3.64 sec.	2.86 sec.											
Single Use Motor	F20W	F23BM	F25W	F50T	G38BM	G40W	G80T	H55W	H70W											
1/4-Scale Patriot, 29							710.5.61	1543.7.08	1560.7.58											
AMRAAM-2.1, 29	1129.5.34	649.4.77	1121.5.78	1268.7.34	1354.7.37	1990.8.29	2068.9.52	3659.10.83	3592.11.24											
Ariel, 29KS							704.5.66	1601.7.44	1626.7.96											
Black Brant VB, 29				837.5.93	882.5.88	1370.6.82	1479.8.20	2908.9.92	2876.10.34											
Bullpuppy, 29ADPTR					729.5.29	1161.6.24	1279.7.68	2688.9.67	2630.10.08											
Bullpuppy 2.1, 29	1319.6.51	978.6.08	1640.7.29	1802.8.79	1871.8.85	2695.9.73	2315.9.26	4667.12.16	4667.12.66											
Callisto, 29	1114.5.33			1106.5.77	1261.7.36	1346.7.39	1998.8.38	2083.9.66	3781.11.17	3713.11.58										
Cirrus *, 29ADPTR	1499.6.60	849.5.69	1481.7.03	1679.8.69	1747.8.76	2678.10.07	2760.11.29	5076.13.41	4969.13.79											
Delta, 29 ADPTR									1122.6.56											
D Tomahawk, 29 ADPTR								620.5.26	1400.6.82	1427.7.35										
Explorer, 29				838.5.94	891.5.92	1375.6.86		1488.8.24	2938.10.02	2906.10.45										
Gamma, 29 ADPTR								641.5.41		1551.7.90										
Hydra, 29 ADPTR										1169.6.68										
Intruder, 29 ADPTR										1391.7.30										
Io, 29	1313.5.92	760.5.25	1300.6.35	1456.7.90	1544.7.94	2269.8.92	2325.10.09	4116.11.52	4034.11.93											
Ion, 29 ADPTR								782.6.01		1827.8.57										
Lil' Lunar, 29ADPTR									1208.6.42	1250.7.01										
Matrix, 29 ADPTR										1304.6.97										
Mini BBX, 29								819.5.27	2417.9.26	2497.9.87										
Miranda, 29KS								683.5.56	1550.7.29	1576.7.81										
MR-1, 29	778.7.61	584.6.73	992.8.46	1003.8.15	1333.9.76	1696.10.56	1774.10.41	4187.15.61	4107.15.22											
Mystic			539.3.84	560.4.84	741.4.99	978.6.01	1590.8.12	1967.8.30												
Phantom or X-Calibur, 29ADPTR				687.5.35	727.5.30	1152.6.24	1274.7.70	2692.9.79	2664.10.20											
Phobos, 29				831.5.93	884.5.90	1372.6.87	1489.8.28	2979.10.16	2948.10.59											
Ptero, Jr., 29ADPTR								870.6.16	1781.7.45	1781.7.92										
Quasar, 29KS								1002.6.80	2181.8.76	2185.9.24										
Quicksilver	513.3.67		662.4.40	677.5.37	897.5.57	1153.6.55	1804.8.57	2199.8.71												
Sm. Endeavour, 29ADPTR								738.5.33	1163.6.25	1281.7.89	2689.9.67	2636.10.08								
Spitfire								653.4.62	870.5.64	1434.7.72	1784.7.90									
Stratus *, 29ADPTR	1013.5.11		1009.5.56	1192.7.32	1273.7.35	1978.8.65	2132.10.10	4214.12.55	4147.12.95											
Tethys, 29KS									1358.6.69	1385.7.22										
Tiny Pterodactyl, 29	1374.6.59	1031.6.22	1687.7.30	1820.8.70	1895.8.76	2648.9.43	2285.9.02	4432.11.51	4423.12.00											
X-Calibur(see Phantom)																				

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Aerotech 29mm F-G: Casing & Length																				
	29/40-120 4.875"	29/40-120 4.875"	29/40-120 4.875"	29/60 3.9"	29/40-120 4.875"	29/100 4.9"	29/40-120 4.875"	29/180 7.6"	29/100 4.9"											
Motor Burn Time>	3.50 sec.	1.70 sec.	1.58 sec.	1.00 sec.	3.50 sec.	1.70 sec.	2.00 sec.	2.20 sec.	0.90 sec.											
Re-load kit	F22J	F40W	F52T	F62T	G33J	G54W	G64W	G75J	G104T											
1/4-Scale Patriot, 29																				
AMRAAM-2.1, 29		1130.7.00	1093.6.85	540.5.12	1407.6.76	1073.6.74	2021.9.25	2712.10.48	1230.7.77											
AMRAAM-3, 29KS																				
AMRAAM-4, 29KS																				
AMRAAM-4 w/CPR3k, 38KS																				
Ariel, 29KS																				
Black Brant VB, 29		741.5.61	720.5.50			705.5.39	1423.7.84	2083.9.34	833.6.43											
Black Brant X, 29KS																				
Bullpuppy, 29ADPTR							1221.7.30	1847.8.89	701.5.91											
Bullpuppy 2.1, 29		1606.8.41	1550.8.24	796.6.28	1971.8.28	1520.8.12	2674.10.62	3445.11.85	1716.9.15											
Callisto, 29		1120.7.00	1083.6.86	529.5.08	1397.6.78	1062.6.74	2033.9.36	2765.10.69	1224.7.79											
Cirrus *, 29 ADPTR		1475.8.21	1423.8.04	692.5.90	1832.8.15	1393.7.90	2657.10.96	3540.12.56	1603.9.03											
D Tomahawk, 29 ADPTR							578.4.85													
Eclipse A, 29KS																				
Endeavour, 29KS																				
Explorer, 29						705.5.39	1429.7.88	2100.9.42	834.6.45											
Hydra, 29 ADPTR																				
Intruder, 29 ADPTR																				
Io, 29		1297.7.53	1252.7.36	626.5.54	1614.7.34	1229.7.26	2276.9.84	3025.11.12	1402.8.30											
Lil Lunar, 29ADPTR																				
Matrox, 29 ADPTR																				
Mini BBX, 29									606.5.49											
Miranda, 29KS																				
MR-1, 29		1132.8.85	1042.8.34	556.6.24	1534.10.55	1212.8.96	2168.11.56	3003.13.46	1294.8.96											
Mystic		636.4.82	590.5.04		867.5.07	695.5.48	1298.7.12	1882.8.78	757.6.09											
Phantom or X-Calibur, 29ADPTR							1214.7.31	1848.8.94	694.5.90											
Phobos, 29		734.5.60	713.5.48				1428.7.91	2112.9.49	828.6.43											
Piero, Jr., 29 ADPTR																				
Quasar, 29KS							949.6.41	1488.7.99												
Quicksilver		768.5.37	710.5.56		1040.5.65	829.6.00	1492.7.61	2109.9.20	892.6.60											
Sm. Endeavour, 29ADPTR						585.4.86	1223.7.31	1849.8.90	703.5.92											
Splitfire		561.4.42	521.4.71		765.4.69	616.5.14	1065.4.91	1706.8.37	674.5.75											
Stratus *, 29 ADPTR		1044.6.88	1010.6.73		1311.6.70	988.6.60	2033.9.67	2905.11.48	1163.7.74											
Sudden Rush, 29KS																				
Tethys, 29KS							561.4.77													
Tiny Pterodactyl, 29	1063.5.74	1639.8.39	1583.8.23	841.6.42	2001.8.21	1555.8.12	2629.10.33	3348.11.41	1736.9.10											
X-Calibur (see Phantom)																				

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Aerotech 29mm H-I: Casing & Length	29/240	29/180	29/240	29/240	29/180	29/360														
	9.4"	7.6"	9.4"	9.4"	7.6"	13.1"														
	1.60 sec.	1.50 sec.	1.40 sec.	0.96 sec.	0.80 sec.	1.80 sec.														
Re-load kit	H97J	H128W	H180W	H220T	H238T	I200W														
1/4-Scale Patriot, 29	1333.776	1067.690	1683.860	1660.882	1203.769	2719.10.36														
AMRAAM-2.1, 29	3029.11.41	2640.10.66	3552.12.04	3489.12.22	2799.11.28	5034.13.49														
AMRAAM-3, 29KS	1279.7.71	1009.6.78	1652.8.68	1633.8.91	1154.7.63	2797.10.79														
AMRAAM-4, 29KS			872.6.25	868.6.51		1669.8.37														
AMRAAM-4 w/CPR3k.38KS						1068.6.74														
Ariel, 29KS	1381.8.06	1088.7.09	1788.9.09	1789.9.32	1245.7.96	3052.11.37														
Black Brant VB, 29	2428.10.41	2045.9.57	2903.11.17	2855.11.36	2207.10.27	4345.12.91														
Black Brant X, 29KS						1109.8.88														
Bullpuppy, 29ADPTR	2218.10.08	1822.9.13	2675.10.90	2631.11.09	2010.9.93	4087.12.78														
Bullpuppy 2.1, 29	3768.12.78	4049.12.94	4922.14.06	4402.13.56	3584.12.63															
Callisto, 29	3102.11.68	2700.10.87	3684.12.39	3623.12.57	2879.11.54	5294.14.01														
Cirrus, 29 ADPTR	3928.13.69	3554.12.72	4936.14.62	4837.14.80	3815.13.49	6931.16.53														
Cygnus, 29 ADPTR			988.6.82	986.7.09	649.5.79	2027.9.61														
Delta, 29 ADPTR	971.6.78	746.5.84	1310.7.86	1302.8.11	878.6.74	2604.10.56														
D Tomahawk, 29 ADPTR	1221.7.52	962.6.61	1580.8.47	1562.8.70	1102.7.45	2691.10.56														
Eclipse A, 29KS						1384.7.72														
Endeavour, 29KS			1009.6.76	1003.7.02	682.5.87	1904.8.97														
Explorer, 29	2450.10.49	2062.9.64	2935.11.29	2888.11.47	2228.10.35	4413.13.05														
Gamma, 29 ADPTR	1315.7.97	1021.6.93	1746.9.15	1732.9.38	1184.7.86	3199.11.98														
Hydra, 29 ADPTR	971.6.77	1061.7.10	1594.8.83	1295.8.07	880.6.73	2432.10.5														
Intruder, 29 ADPTR	1147.7.33	1242.7.65	1811.9.31	1490.8.57	1036.7.27	2653.10.79														
Io, 29	3358.12.08	2961.11.29	3983.12.75	3915.12.92	3143.11.94	5549.14.22														
Ion, 29ADPTR	1537.8.53	1210.7.55	2003.9.73	1982.9.95	1384.8.45	3467.12.29														
LiF Lunar, 29ADPTR		827.6.19	1448.8.31	1437.8.56	973.7.12	>>unstable<<														
Matrix, 29 ADPTR	1081.7.06	1167.7.35	1684.8.89	1393.8.22	977.7.01	2437.10.22														
Mini BBX, 29	2022.9.69	2155.10.00	2885.11.52	2462.10.83	1826.9.54	3972.12.91														
Miranda, 29KS	1341.7.93	1057.6.97	1735.8.94	1716.9.17	1209.7.84	2952.11.15														
MR-1, 29	3447.13.96	2934.12.95	4086.14.60	4027.14.34	3151.12.98	5998.16.94														
Mystic	2221.9.86	1848.9.01	2685.10.64	2758.11.03	2011.9.73	4132.12.43														
Orion, 29 ADPTR	839.6.26	643.5.37	1141.7.29	1134.7.54	763.6.25	2210.9.86														
Phantom or X-Calibur, 29ADPTR	2234.10.17	1825.9.18	2741.11.10	2701.11.30	2023.10.02	4319.13.22														
Phobos, 29	2477.10.60	2077.9.71	2986.11.44	2939.11.63	2253.10.45	4535.13.32														
Piero, Jr., 29 ADPTR	1522.8.12	1247.7.34	1859.8.81	1818.9.00	1374.8.05	>>unstable<<														
Quasar, 29KS	1837.9.25	1478.8.26	2299.10.21	2264.10.41	1657.9.11	3688.12.30														
Quicksilver	2449.10.21	2062.9.41	2917.10.93	2987.11.30	2224.10.09	4378.12.58														
Sm. Endeavour, 29ADPTR	2220.10.09	1823.9.14	2689.10.93	2646.11.13	2012.9.94	4145.12.85														
Spitfire	2030.9.46	1679.8.61	2467.10.25	2537.10.63	1835.9.34	3842.12.04														
Stratus *, 29 ADPTR	3316.12.73	2877.11.67	4164.13.79	4112.13.98	3134.12.50	6390.16.26														
Sudden Rush, 29KS			1360.8.01	1350.8.26	915.6.88	2554.10.66														
Tethys, 29KS		936.6.51	1535.8.34	1517.8.57	1072.7.34	2619.10.40														
Tiny Pterodactyl, 29	too long	3849.12.36	too long	too long	3427.12.13	too long														
X-Calibur (see Phantom)																				

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Aerotech 38mm G-H: Casing & Length						38/240 6.0"	38/360 7.9"	38/240 6.0"	38/240 6.0"	38/240 6.0"
Motor Burn Time>						3.50 sec.	3.40 sec.	2.60 sec.	1.50 sec.	1.20 sec.
Re-load kit						H73J	H112J	H123W	H148R	H242T
1/4-Scale Patriot, 38	1127.6.10	2343.9.04	1587.7.67	1608.8.41	1907.9.26					
AGM256 PII Bull, 38	2323.12.51	3720.14.56	2877.12.85	2867.12.44	3192.12.75					
AMRAAM-3, 38KS	1034.5.87	2317.9.22	1518.7.63	1564.8.45	1877.9.38					
AMRAAM-4, 38KS	na	na	768.5.15	831.6.09	1021.6.92					
Andromeda, ADPTR-54/38	na	na	na	na	na					
Ariel, 38KS	1117.6.19	2511.9.71	1640.8.02	1690.8.84	2033.9.82					
Black Brant VB, 38	2207.8.93	3873.11.68	2828.10.38	2773.10.94	3193.11.80					
Black Brant X, 38KS	na	na	na	na	630.5.43					
Bullpuppy, 38	2188.8.89	3792.11.55	2788.10.31	2726.10.85	3127.11.69					
Callisto, 38	2955.10.36	4839.12.93	3626.11.67	3527.12.16	4014.13.02					
Cirrus Dart *, 38	4180.12.64	6777.15.42	5181.14.02	5024.14.44	5649.15.38					
Cygnus, ADPTR-54/38	na	na	952.5.97	1045.7.03	1284.7.96					
Delta, 38	na	1764.8.08	1333.7.20	1423.8.19	1799.9.10					
D Tomahawk, 38	995.5.73	2230.9.00	1463.7.46	1505.8.27	1811.9.19					
Eagle, ADPTR-54/38	na	na	na	860.6.30	1060.7.17					
Eclipse A, 38KS	na	na	na	na	809.6.10					
Eclipse B (2) 38	1321.6.81	2821.10.26	1895.9.61	1932.9.41	2282.10.34					
Endeavour, 38KS	na	1450.7.14	900.5.67	963.6.60	1177.7.46					
Explorer, 38	2221.8.99	3928.11.81	2854.10.48	2812.11.05	3229.11.92					
Gamma, 38	na	2374.9.56	1820.8.59	1916.9.56	2273.10.51					
Hydra, 38	na	2042.8.76	1286.7.04	1357.7.95	1645.8.91					
Intruder, 38	na	2329.9.26	1508.7.62	1563.8.46	1871.9.38					
Io, 38	3229.10.80	5196.13.30	3932.12.07	3813.12.52	4323.13.38					
Ion, 38	1484.7.33	2692.10.10	2110.9.21	2194.10.12	2537.10.96					
Little Lunar Express, 38	na	2267.9.37	1430.7.53	1566.8.61	1833.9.48					
Matrix, 38	na	2148.8.75	1411.7.27	1456.8.08	1736.8.95					
Miranda, 38KS	1088.6.08	2443.9.54	1597.7.88	1645.8.70	1979.9.67					
MR-1, 38	3196.14.43	5199.17.07	4001.15.04	4000.14.65	4490.15.11					
Mystic	2008.8.38	3478.10.93	2603.9.82	2632.10.59	2982.11.29					
Nimbus, ADPTR-54/38	na	2337.9.51	1481.7.67	1550.8.57	1891.9.62					
Orion, 38	na	1147.6.58	1232.7.58	1483.8.44	na					
Phantom or X-Calibur, 38	2193.8.95	3965.11.93	2852.10.51	2821.11.11	3255.12.01					
Phobos, 38	2234.9.06	4009.12.02	2895.10.61	2859.11.20	3294.12.10					
Pterodactyl Jr., 38	1474.6.90	2620.9.12	1915.8.17	1878.8.75	2138.9.41					
Quantum Leap	(SEE TWO-STAGE DATA)									
Quasar, 38KS	1554.7.47	3138.10.80	2165.9.24	2184.9.97	2560.10.88					
Quicksilver	2254.8.82	3753.11.19	2854.10.17	2865.10.90	3219.11.55					
Small Endeavour, 38	2190.8.90	3838.11.62	2801.10.34	2769.10.95	3155.11.75					
Spitfire	1819.7.95	3207.10.50	2387.9.42	2420.10.20	2749.10.89					
Stratus *, 38	3454.11.65	5937.14.88	4386.13.26	4296.13.77	4930.14.81					
Sudden Rush, 38KS	na	1953.8.63	1216.6.86	1285.7.78	1582.8.79					
Tethys, 38KS	na	2155.8.82	1414.7.31	1456.8.12	1750.9.02					
Thunder & Lightning, 38	(SEE TWO-STAGE DATA)									
X-Calibur (see Phantom)	(SEE TWO-STAGE DATA)									

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Aerotech 54mm J-K Casing & Length																
Motor Burn Time>	7.50 sec.	4.50 sec.	3.20 sec.	2.46 sec.	1.90 sec.	7.00 sec.	3.50 sec.	2.25 sec.	1.60 sec.	7.50 sec.	3.50 sec.	2.25 sec.	1.60 sec.	54/2560 22.8"	54/2560 22.8"	
Reload kit	J90W	J180T	J275W	J151R	J460T	J135W	J415W	J540R	J800T	K165W	K550W	K695R	K1100T	K1275R	K700W	
1/2-Scale Patriot, 54	1282.5.59	1271.6.72	1144.6.70	1365.7.73	1785.5.77	2327.9.12	2252.9.65	2620.10.74	2784.7.56	3349.10.84	3043.11.11	3455.12.20	4345.13.00	4910.12.62		
AGM600 PH Bull, 54	1741.6.82	1715.7.91	1542.7.88	1794.8.84	2398.7.12	2885.10.09	2778.10.65	3105.11.49	3329.7.97	3903.11.50	3618.11.97	3944.12.74	4952.13.67	5387.13.06		
AMRAAM-3, 54KS	6104.11.49	6558.13.55	6249.14.39	6753.14.23	6022.14.90	6160.13.76	7583.15.26	6982.15.30	6891.15.70	9356.14.42	8251.15.66	7589.15.84	7667.16.40	8714.16.85	9344.16.30	
AMRAAM-4, 54KS	4033.8.94	4465.11.11	4328.12.09	3927.11.92	4290.12.78	5738.11.29	5934.13.51	5426.13.58	5612.14.18	7158.12.33	6740.14.03	6095.14.18	6125.14.68	6833.14.88	7590.14.51	
AMRAAM-4 wCPR3k, 54KS	3643.10.54	3552.11.56	3253.11.51	3580.12.34	4820.10.95	5263.13.55	5040.14.03	5474.14.81	6311.12.37	6697.14.68	6178.15.25	6455.15.83				
Andromeda, 54	na															
Ariel, 54KS	6738.12.43	7257.14.56	6854.15.31	6358.15.17	6611.15.62	8898.14.75	8261.16.22	7698.16.30	7598.16.70	10099.15.42	8983.16.65	8405.16.91	8532.17.51	9767.18.08	10437.17.52	
Aurora, 54	4012.9.72	4768.12.47	4648.13.47	4175.13.15	4686.14.26	6303.13.12	6860.15.80	6417.15.94	6947.16.89	8215.14.80	8258.16.54	75.481.702	7801.17.71	8709.18.05	9487.17.68	
Black Brant X, 54KS	3790.10.72	3692.11.73	3323.11.51	3718.12.51	5001.11.12	5431.13.69	5073.13.90	5619.14.91	6515.12.52	6808.14.93	6144.15.02	6446.15.75	7199.16.00	7976.15.68		
Bulldog, 54	2259.8.19	2224.9.28	1970.9.07	2320.10.23	3146.8.77	3690.11.74	3495.12.12	3994.13.23	4409.10.49	5018.13.44	4556.13.63	5098.14.73	6227.15.58	6969.15.36		
Cygnus, 54	5986.12.23	6776.14.77	6582.15.72	6080.15.61	6558.16.44	8745.15.44	8731.17.45	8202.17.69	8386.18.16	10474.16.50	9854.18.18	9083.18.43	9322.18.96	10525.19.63	11374.19.07	
Eagle, 54	5664.13.21	5505.14.19	5085.14.13	5490.14.91	7322.13.69	7553.15.96	7100.16.25	7291.16.72	9114.15.00	8632.16.69	7940.16.98	8063.17.42	9050.17.94	9843.17.38		
Eclipse A, 54KS	4306.11.34	4189.12.34	3780.12.11	4193.13.08	5622.11.70	5990.14.15	5572.14.71	5976.15.14	7194.13.01	7149.15.06	6494.15.19	6649.15.79	7447.16.06	8170.15.66		
Endeavour, 54KS	4526.9.67	4999.11.86	4844.12.83	4395.12.63	4801.13.52	6412.12.10	6610.14.22	5953.14.27	6071.14.81	7943.13.20	7260.14.68	6623.14.85	6594.15.31	7430.15.61	8130.15.17	
Lunar Express, 54	2867.9.58	2805.10.62	2496.10.36	2885.11.52	3926.10.23	4573.13.28	4331.13.62	4946.14.83	5480.12.16	6199.15.19	5626.15.29	6305.16.50	7482.17.28	8291.17.06		
Miranda, 54KS	6415.12.08	6951.14.23	6612.15.04	6092.14.86	6392.15.56	8617.14.47	8030.15.97	7447.16.04	7351.16.43	9825.15.15	8745.16.40	8119.16.62	8231.17.21	9392.17.72	10044.17.17	
Nimbus, 54	7290.13.24	7780.15.35	7364.16.08	6863.15.94	7112.16.58	9471.15.56	8837.17.02	8225.17.08	8264.17.59	10698.16.26	9605.17.49	9018.17.75	9280.18.45	10501.18.99	11378.18.55	
Pterodactyl, 54	1576.6.29	1553.7.39	1380.7.30	1624.8.30	2165.6.50	2613.9.40	2484.9.82	2803.10.75		3522.10.68	3195.11.00	3552.11.91	4339.12.50	4846.12.10		
Quantum Leap	(SEE TWO-STAGE DATA)															
Quasar, 54KS	7790.13.28	7851.14.93	7351.15.61	6975.15.61	7021.16.07	9514.15.08	8671.16.42	8059.16.47	8134.17.03	10679.15.74	9513.16.96	8922.17.21	8952.17.25	10403.18.47	11254.17.99	
Sudden Rush, 54KS	6141.12.28	6854.14.70	6658.15.65	6015.15.29	6566.16.29	8749.15.27	8454.16.99	7859.17.05	7924.17.55	10140.16.13	9311.17.51	8635.17.70	8795.18.31	9944.18.81	10686.18.32	
Tempest, 54HR	6403.12.35	7040.14.65	6775.15.53	6181.15.26	6603.16.09	8825.16.24	8357.16.62	7772.16.70	7743.17.13	10108.15.79	9143.17.10	8497.17.31	8652.17.92	9831.18.45	10539.17.92	
Tethys, 54KS	5785.11.01	6217.13.05	5967.13.95	5457.13.77	5760.14.48	7838.13.30	7296.14.82	6743.14.92	6624.15.28	9018.13.96	7951.15.21	7385.15.46	7318.15.92	8461.16.44	8815.15.72	
Ultimate Endeavour **	1853.7.10	1825.8.20	1622.8.07	1907.9.13		3060.10.42	2898.10.83	3305.11.85		4156.11.91	3774.12.17	4210.13.17	5162.13.90	5759.13.57		

** Note: Ultimate Endeavour flights shown on single 54mm motor only. RockSim 4.0 does not allow central 54mm surrounded by (3) 38's.