

PLEASE READ THIS VERY IMPORTANT INFORMATION!

- All data was produced from RockSim 4.0 simulation software with 500' elevation launch site, 70% humidity, 75 deg. F, 0 mph wind, 0 deg launch rod angle.
- All shown are Aerotech motors (exc. Hybrids). Information displayed as "Altitude in feet,Optimal Delay in seconds".
- No entry likely means the motor is either not powerful enough or will not physically fit the kit.
- User is responsible for checking CG/CP relationship, speed off launch rod/stability, adequacy of airframe for the motor used, etc.
- All of these flights were done from a 96" launch rod and achieved 35-40fps minimum by the end of the 96" rod; if you use a shorter rod you must recheck!!!

— These are estimates/simulations only, **NOT GUARANTEES OF SUITABILITY OR PERFORMANCE**. This information is to be used at the flyer's risk and as a guideline only. It is up to the flyer to decide if the motor and kit combination is appropriate for their situation. If there are any questions about the motor, contact the motor manufacturer for assistance.

— It is our recommendation that, in most cases, a delay shown for the motor in question should be "delayed down". A shorter delay should be chosen. This is primarily due to the fact that these simulations are run under "perfect" conditions, and with a rocket weight as PML builds the kit. For example, if the chart shows a 7.1 second delay as optimum and the motor offers a 5 and 7 second delay, you might wish to choose the 5-second delay. In our experience, simulations tend to overestimate the "real-world" delay by about 10-15%. Your rocket may weigh more than the one used in the simulation, as build techniques vary and we tend to "build light". Also, actual flight conditions such as winds, temperature and humidity differences, and especially motor performance in the real world (as opposed to the "perfect" motor used by RockSim) can and WILL cause differences in your actual flight from these predictions. Remember, this information is a GUIDE, not a GOSPEL. The flyer must use their own judgement and experience, and/or the assistance of other local fliers known to have experience, whenever flying a rocket of any kind.

1234, 56.78	Yellow means this motor/rocket combination requires modifications (strengthening). This motor is not recommended for the stock kit. Consult the <i>Kit Strengthening</i> section of our FAQ for details on what to do to strengthen the kit.
1234, 56.78	Bold type means this kit requires modifications to fit the super-long motor (usually the use of an Extended Kwik Switch and/or additional airframe length)
1234, 56.78	Yellow & bold type means this motor not only requires strengthening modifications but also requires special modifications to fit the super-long motor.
1234, 56.78	Blue means this motor/rocket combination requires absolutely top-notch construction to fly successfully. The stock kit can fly on this motor, but the following items MUST be done, and done properly, to ensure a solid and strong rocket: — Instructions must be followed to the letter — The directions about sanding all parts to be bonded are critical. We cannot overemphasize how much this adds to strength. — Good, thick, quality epoxy fillets, especially on the fin to motor mount joint and the fin to airframe ID joint. — Pressure relief holes should be added to the kit as described in our FAQ. — Payload sections and nosecones should be very snug fits. "Sloppy" fits are rocket-killers under high stresses. — A rocket that has been repaired should NEVER be flown on this motor combination. Only "original-strength" rockets should be used.
1234, 56.78	Blue & bold type means this motor not only requires the build techniques above but also requires special modifications to fit the super-long motor.

EXAMPLE: RFS-1, H123W: "1314,6.89" means 1314 feet peak altitude, 6.89 second optimum delay time

29mm Reloads: Casing & Length	29/180 7.6"	29/180 7.6"	29/180 7.6"	29/240 9.4"	29/240 9.4"	29/240 9.4"	29/360 13.1"							
Motor Burn Time>	2.20 sec.	1.50 sec.	0.80 sec.	1.60 sec.	1.40 sec.	0.96 sec.	1.80 sec.							
Re-load kit	G75J	H128W	H238T	H97J	H180W	H220T	I200W							
RFS-2, 29KS							1610,8.47							
38mm Reloads: Casing & Length	38/240 6.0"	38/240 6.0"	38/240 6.0"	38/360 7.9"	38/360 7.9"	38/480 9.8"	38/480 9.8"	38/480 9.8"	38/600 11.7"	38/600 11.7"	38/600 11.7"	38/720 13.6"	38/1080 19.2"	
Motor Burn Time>	3.50 sec.	2.60 sec.	1.20 sec.	2.30 sec.	1.10 sec.	3.60 sec.	2.20 sec.	1.60 sec.	2.83 sec.	1.80 sec.	1.40 sec.	1.90 sec.	2.05 sec.	
Re-load kit	H73J	H123W	H242T	I161W	I357T	I154J	I211W	I300T	I195J	I284W	I435T	J350W	J570W	
RFS-1	---	1314,6.89	1600,8.47	2358,9.42	2419,10.18	2703,9.31	3076,10.54	3052,10.85	3113,10.30	3699,11.59	3975,12.15	4426,12.25	5537,12.76	
RFS-2, 38KS	---	---	966,6.77	1590,8.05	1738,9.08	1842,7.96	2690,10.36	2394,10.22	2466,9.79	3353,11.81	3448,12.17	3981,12.6	5703,13.96	
54mm Reloads: Casing & Length	54/852 9.5"	54/852 9.5"	54/852 9.5"	54/852 9.5"	54/1280 12.8"	54/1280 12.8"	54/1280 12.8"	54/1706 16.1"	54/1706 16.1"	54/1706 16.1"	54/2560 22.8"			
Motor Burn Time>	7.50 sec.	4.50 sec.	3.20 sec.	1.90 sec.	7.00 sec.	3.50 sec.	1.60 sec.	7.50 sec.	3.50 sec.	1.60 sec.	3.60 sec.			
Re-load kit	J90W	J180T	J275W	J460T	J135W	J415W	J800T	K185W	K550W	K1100T	K700W			
RFS-2, 54KS		4653,11.63	4518,12.62	4547,13.39	6024,11.94	6539,14.78	6080,15.05	7578,13.07	7261,14.94	6672,15.62	8422,15.55			