

Hi, everyone. Welcome to 2000, and the first PML News this year. Here's what we've got for you this time.

MOTOR SPECS CHART

I just edited the Motor Specifications Chart in the Spec Sheet section of our site to include the 3 latest 29mm motors from Aerotech, the single-use Black Max F23BM and G38BM, and the new I200W 29/360 reload. You'll note that in two of our kits on the I200W, the Pterodactyl Junior and the Little Lunar Express, the entry in the chart shows "unstable". This means that in those two kits you'll need to add nose weight to offset the substantial weight of all those 29mm grains and casing, 13.1" of it to be exact! The I200W will physically fit in the kits, but since the motor specs chart is intended to represent our rockets in stock configuration I needed to indicate on the chart that they would not be suitable on the I200W "out of the box".

In some quickie RockSim runs to see how much weight would be needed for each of the kits, I came up with the following. Keep in mind you'll have to check your CG/CP yourself to get the stability margin you're comfortable with if you decide to use the I200W in these kits; this info is just to give you a "feel" for what you're looking at if you decide to do it.

Format is: Kit, Noseweight Added, Barrowman Stability, RockSim Stability, Altitude, Optimal Delay.

Ptero. Jr., 16 oz., 1.29, 1.33, 2397', 9.92 sec.

Little Lunar Express, 16 oz., 0.97, 1.55, 2195', 10.06 sec.

Now, I don't know if you want to go through the trouble of adding a pound to the nose of these kits, especially since you'll have to carry that pound around on other motors when you don't need it, but if you want to fly the I200W in those two, that's about what you'll have to add. Again, though, it's up to you to check your CG/CP on your particular kit, since users build kits differently and may use more or less epoxy, etc., affecting weight and balance. By the way, if you add a pound to your nosecone you also should upgrade the chute one size to compensate for all that extra weight. Is it worth all this to fly the I200W in your Ptero Jr. or Lil' Lunar kit? Only you know for sure! ;)

QUANTUM LEAP CONFIGURATIONS

As you may know, our 2-stage Quantum Leap kit can be flown in any of 5 different configurations (including two single-stage configurations), so it's a popular kit for many people wanting to have a lot of flight options available. We've updated our material on the Qleap on the website (Webstore/Rocket Kits/Extreme Altitude) to show a graphic of the 5 different configurations, what components make up each of those configurations, and some length, typical weight, and CP data for each configuration. This should

give people considering the Quantum Leap kit more information to decide whether it's right for them. We have some typical Qleap flights on the last page of the Motor Specs chart as well to give you an idea of the performance of the kit in two-stage configuration. (As you can imagine, there are literally thousands of different motor combinations that could be flown. We just picked a few that seemed to be good indicators of the low, medium, and high end of possible choices to give you a feel for the performance. If you're really interested in the Qleap and certain motor combos, we suggest you get RockSim 4.0 from Apogee Components and download our RockSim files from our site to play around with the motors you're interested in).

REFORMATTED DEALERS LIST

The last item is our Dealers list. We've had a list of PML dealers on our site for quite some time, but now we've reformatted the dealer list by State to make it easier to find a dealer near you. If a dealer has a website and/or email address, those are shown on the list as hyperlinks to make it easy for you to communicate with that particular dealer. There are also International dealers shown in the list; they're at the bottom of the second page, but there's also a link at the very top of the dealer list to quickly take you there.

Happy flying!

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