



1603 S Eastside Loop

Suite 207

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Cape Canaveral Launch Pad Product Documentation

Group rocket launches go a lot smoother with a sturdy, stable, multiple rod launch pad that's up off the ground to lower the risk of students stumbling over the launch gear. The Rocketry Works Cape Canaveral Launch Pad features 6 1/8 inch launch rods with blast deflectors and stand offs, and a rotatable 1 1/4 inch PVC cross rail to angle your rockets into the wind and away from spectators properly. It is designed to be used with the Rocketry Works Houston Launch Controller, although it is compatible with most any launch controller. Can also accept 3/16 or 1/4 inch launch rods, with the appropriate Rocketry Works launch rod mount.





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Cape Canaveral Launch Pad Features

- Two configurations—one tall, and one short—can be used to accommodate young elementary age kids or older fliers.
The tall configuration keeps the launch rod tips up above the face of 6 foot tall individuals, yet older elementary age children can load a rocket onto the launch rod without bending the rod.
- The short configuration allows young elementary age kids to reach the rod tips, but be sure to use the included launch rod caps to protect taller kids and adults.
- The launch pad components come in a 15 pound bundle secured with hook and loop straps and the 4 foot length of the cross piece permits easy transport, even in small cars.
- The 3D printed pad accessories store nicely in Rocketry Works' 19 inch field box that comes with the Houston Launch controller, which is designed to work with the Cape Canaveral launch pad, though the controller is sold separately.
- 3D printed PLA launch rod mount and blast deflector pad parts come with extras equipment failures do not leave you stranded at a launch, and the 3D printed parts have endured more than 60 flights each during testing, and are still going strong, if a little dirty.
- The launch pad cross piece stores launch rods between launches.
- The included 5/16 inch hex wrench secures the legs in the cross piece, adjusts the angle of the launch rods, and stores in the cross piece as a hanger for the Houston launch controller's igniter lead distribution box (sold separately).
- The launch rod mount has an eyelet at the base to help organize the igniter leads; just loop the igniter lead through the eyelet, and it's perfectly obvious which igniter clips belong with which pad.
- While Rocketry Works' blast deflectors are compatible with Estes pads, our blast deflectors are made of sturdy 20 gauge (1/32 inch) steel, which is strong enough to resist warping like thinner blast deflector plates do under normal use. For mid power launches, 16 gauge (1/16 inch) steel blast deflectors are available.
- Rocketry Works' blast deflector stand off features a unique flared top end that serves as a stable platform to keep your rocket off the blast deflector.



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- The Cape Canaveral pad ships with six 3-foot 1/8 inch launch rods and matching red launch rod mounts and blast deflector mounts. You can add a 3-foot 3/16 inch launch rod (and matching orange mounting gear) or a 4-foot 1/4 inch launch rod (and matching yellow mounting gear) if your launch requirements include larger models that require these rods.
- This pad has been tested with 2 pound kits flying on 1/4 inch rods on G motors. The launches were stable and did not damage the blast deflectors.
- This pad is designed to go hand-in-hand with the Rocketry Works Houston Launch Controller, sold separately





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What's in the Box?

- 4 foot long launch pad with legs and leg extensions, secured in hook-and-loop straps for easy transport
- Six 1/8 inch launch rods and matching red launch rod mounts and blast deflector mounts.
- Six 20 gauge (1/32 inch) steel blast deflector plates
- One 5/16 inch hex wrench for adjusting the pad angle and securing the legs
- Six launch rod caps
- Spare plastic parts





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Cape Canaveral Launch Pad Setup

1. Lay out the launch pad parts on the ground, and remove the hook-and-loop straps that bind the legs to the cross piece for transport.





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2. Insert the 4 longer legs segments into the metal leg mounts, and tighten the set screw to secure the legs in the cross piece.



3. If you are using the pad in the taller configuration, attach the shorter leg segments to the base of the longer legs.



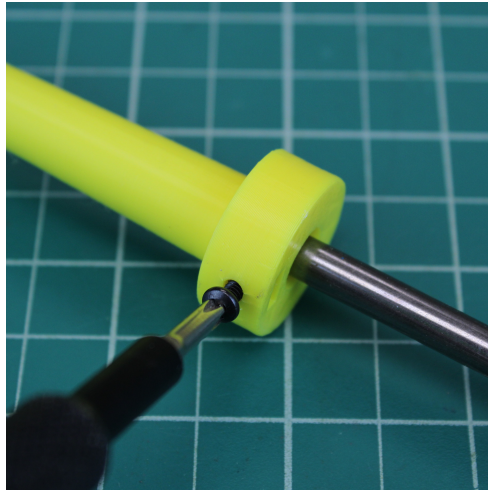
4. Unscrew the end cap of the cross piece, and remove the stored launch rods.



5. Insert the launch rod fully into the launch rod mount.
On first use, it may take several insertions and removals to ensure full insertion into the launch rod mount.



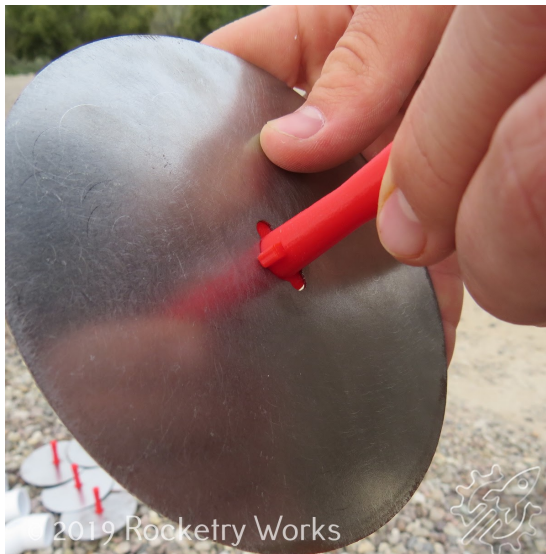
6. Tighten the bolt against the launch rod to secure the rod in the mount.



7. Insert the launch rod mount into the cross piece.
Make sure the pad numbers face right side up; the top mounting hole is larger than the bottom mounting hole, and proper orientation is required for a good fit.



8. Insert the blast deflector mount through the hole at the center of the blast deflector, twist the blast deflector mount 90 degrees, and slide the blast deflector onto the launch rod.



8. Pad setup is complete when all pads have the blast deflector and its mount rest around the launch rod on the launch rod mount.

