



1603 S Eastside Loop Suite 207  
Tucson, AZ 85710

# Wallops Island Launch Pad Product Documentation

Rocketry Works' Wallops Island launch pad is a sturdy pad designed for use with 1010 launch rail, and is ideal for TARC use or for Level 1 and Level 2 flights up to 10 lb rockets. The pad's sturdy steel construction and simple design keeps the price low and folds small for easy transport.





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## Wallops Island Launch Pad Features

- 40 inch base diameter is well suited for mid to high power rockets up to 10 lbs.
- 3 tubular steel legs provide a naturally stable platform.
- 3/16 inch thick steel blast deflector measures 11.5 inches square, and is a key structural part of the launch pad.
- Built-in extendible foot allows launch angle adjustments up to 5 degrees from vertical.
- Folds easily for transport and storage, yet sets up quickly with the included hex wrenches.
- Once set up, you can tip the pad onto 2 legs to allow easy loading of your rocket onto the rail.
- For an additional \$30, and 3 weeks' lead time, we can custom engrave the pad with your school or club's logo.





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## What's in the Box?

The core of the Wallops Island launch pad consists of a 3 legged steel launch pad with an 11.5 inch square 3/16 inch thick steel blast deflector that is a key structural element of the pad. It also comes with tools required for pad assembly and disassembly.

- Wallops Island Launch Pad
- 3/16 inch hex wrench for tightening leg bolts
- 5/64 inch hex wrench for securing launch rail in pad
- 6 inch x 5/16-18 angle adjustment bolt

Compatible products, sold as options:

- 6 foot 1010 launch rail  
<https://www.rocketryworks.com/1010-rail-6-ft/>
- 8 foot 2-piece 1010 launch rail  
<https://www.rocketryworks.com/2-piece-8-foot-1010-launch-rail/>
- 1010 launch rail stand-off  
<https://www.rocketryworks.com/1010-launch-rail-stand-off/>

Also available separately:

- Antares mid power launch controller  
<https://www.rocketryworks.com/antares-mid-power-launch-controller/>
- Rail buttons  
<https://www.rocketryworks.com/1010-rail-buttons-2-pack/>





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## Unpacking the Wallops Island Launch Pad

You wouldn't think we'd need to mention this, but we have seen some pretty rough treatment of the Wallops Island Launch Pad in transit with commercial carriers. Please check the box, packaging, and the pad itself for damage before you use your launch pad. Rocketry Works pays close attention to how we pack the Wallops Island pad, and each one leaves Rocketry Works packed to survive the journey.

- The 23 lb pad is packed in a 29x17x5 inch box rated to withstand 65 lbs and all flaps are sealed with fiber tape.

If there is more than one type of tape closing the outer box, someone else has resealed the box.

- Internal corrugated liners and spacers ensure that the pad does not slide around in the box or puncture the outer box. Your shipment should look like this when you open the box:



- There are no loose parts in the box. All accessories--usually the adjustable foot bolt and 2 allen wrenches, along with the pack list--will be in a clear ziplock bag and taped to the corrugated liner.
- Any other order items included in the shipment will be bagged or boxed inside the outer box, or shipped separately. Your pack slip will indicate which items are where.



## Setting up the Wallops Island Launch Pad

The Wallops Island launch Pad ships fully assembled, tested for alignment, and ready to add a rail and use.

1. Insert the height adjusting bolt into the foot of the center leg, and screw in the bolt until it screws into the forward nut, about 2 inches above the base end of the leg.

The 6 inch 5/16-18 bolt is secured in 2 nuts--one at the base of the foot, and the other embedded in the foot, about 2 inches forward.



Inserting the height adjusting bolt into the foot of the center leg



The height adjusting foot allows you to tilt the pad about 5 degrees away from spectators

2. Swing the two side legs from their storage position into position on the corners opposite the center leg.

Chances are, you will not need to tighten the leg bolts often. The center leg leaves Rocketry works tightened down pretty snug, since it does not need to move. The side legs ship out a bit looser, but you will likely not need to tighten them every time you use the pad. The side legs should move with deliberate force, but they do not need to be difficult to swing. Use the included 3/16 inch allen wrench to adjust the leg bolts from the bottom of the launch pad.



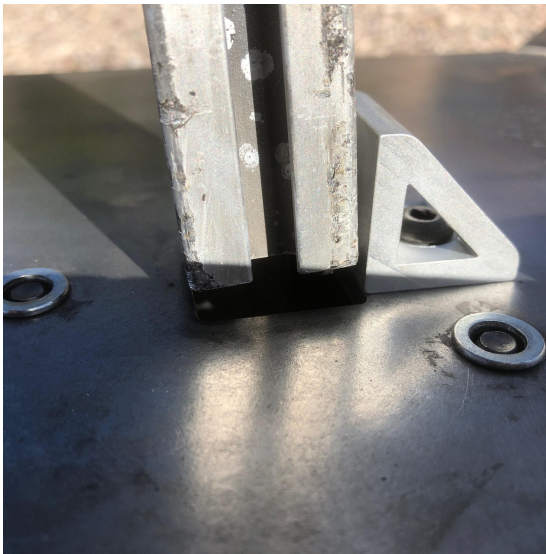
Swinging side legs into position



Legs in launch position



3. Slide a 1010 launch rail onto the T-nut on the angle bracket, and through the center square hole in both blast deflector plates. Tighten the bolt securing the rail to the angle bracket using a 5/32



Sliding the 1010 rail over the T-nut on the angle bracket and into the square holes



Insert the rail just far enough to secure the rail in both steel plates. Half an inch is plenty.



Tightening the rail against the angle bracket provides the tension that produces stability.



Pad is set up and ready for use





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## Using the Wallops Island Launch Pad

The Wallops Island launch pad is a good pad for rockets up to about 10 pounds. Always follow appropriate safety guidelines when flying rockets:

- NAR Model Rocketry Safety Code  
<https://www.nar.org/safety-information/model-rocket-safety-code/>
- NAR High Power Safety Code  
<https://www.nar.org/safety-information/high-power-rocket-safety-code/>
- NAR Remote Control Glider Safety Code  
<https://www.nar.org/safety-information/radio-control-rocket-glider-safety-code/>
- Tripoli Safety Code  
<http://www.tripoli.org/SafetyCode>

In particular, be sure to maintain appropriate areas clear of flammable materials around the pad, and minimum safe personnel distance. Always angle the launch rail or launch rod away from spectators, and fly the field and conditions—meaning, don't fly if weather, field conditions, field dimensions, or other users don't allow compliance with the safety code requirements.

## Care and Maintenance

The Wallops Island pad is made of sturdy steel and it ships with a thin coat of mineral oil to reduce rust build up. Steel will naturally build a layer of rust over time, but that pales in comparison to the filth that will build up from repeated rocket launches; rust will be a minor issue relative to the exhaust residue. We recommend periodic disassembly and cleaning with an all-purpose cleaner like Simply Green to remove motor exhaust residue. After cleaning, dry the pad with an absorbent cloth or paper towels, and coat it with a thin coat of mineral oil before reassembly.