Bending Dropout Tabs
Many builders will bend the dropout tabs to align the dropouts with the stays. This works well with some dropouts, but not with Paragon dropouts. Please do not bend the dropout tabs! It is far better to slot the stays at an angle, or use a transition piece like our bullets or seatstay/chainstay plugs. Bent dropout tabs are more work for the builder, can weaken the dropout, introduce stresses that make further alignment difficult, and may interfere with how the dropout functions. This last comment is particularly applicable to all of our adjustable dropouts.

*Dropouts that have been bent in the course of construction are not guaranteed in any way.*

Wright Dropouts
Paragon Machine Works Wright dropouts are so named because Mark saw a similar dropout in the Wright brothers' workshop preserved at Greenfield Village in Dearborn, Michigan. The Wright brothers are the same ones who invented the airplane, but built bicycles before they became famous. Other builders have used this style, and some have tried to claim it as their own. Whether it was invented by the Wrights or not, it's fair to say that they were early users of this type of dropout. In this context, any PMW round dropout with a flange is listed as a Wright. They are also known by other names such as hooded, Koski, Breezer, Ibis, KGB and Champion. We offer 1-1/8” and 1-1/2” round, rear Wright style dropouts that are compatible with 10 or 12 mm hubs (see product details).

Axle Slots
Front dropouts are compatible with either a 9 mm axle or 15 mm skewer (see product details). Rear dropouts are compatible with either a 10 mm axle or 12 mm skewer (see product details).
**Low Mount Disc Dropouts**

Our low mount disc dropouts are available in 48 and 58 degree angles, and for 10 and 12 mm hubs. When these were designed, we paid careful attention to the size of currently available disc calipers and the position of the seatstays and chainstays in relationship to the calipers. Most modern, small, low-profile calipers will fit. Please be aware that not all calipers will be able to fit properly in this confined space. Please do a mock-up with the caliper you intend to use before you start building the frame. Because of the long length of the chainstay tab, heel clearance may be compromised. For maximum clearance put the chainstays on the inside face of the chainstay tab.

**Flat Mount Disc Dropouts**

Hydraulic disc brakes have become a standard feature on mountain bikes, and are gaining popularity on road bikes. The newest disc brake standard is a road-specific flat mounting system developed by Shimano. The rear brake sits flush to the frame and is mounted inboard on the rear triangle, with the brake caliper directly mounted on the frame or fork. This offers a cleaner and more minimalist appearance, and allows a more compact packaging of the brake caliper.

The bolts thread into the bottom of the caliper rather than threading in from the top, as is the case with post mount brakes. At the chainstay the bolts no longer thread into inserts in the frame, but pass through the chainstay from the bottom. Because the bolts thread in from the bottom of the caliper, the front brake must be used with a slim adaptor.

We currently stock frame components, PolyDrop inserts, and caliper mounts that are compatible with the Shimano flat mounting system. We are excited to have embraced this new standard and will continue to expand our selection of compatible parts.

Bike Rumor, March 2015: [Shimano Flat Mount Hydraulic Road Disc Brakes](#)

**PolyDrops**

Our PolyDrop frame components are available in 6/4 titanium and 17/4 stainless steel and consist of four pieces: right and left chainstay components, and right and left seatstays components. These are fastened
with screws to the right and left 6061 aluminum inserts (ordered separately) that allow for almost any configuration of axle, hub, and brake. The angle of the stay tabs are 44 degrees, and may be cut back by the builder to accommodate larger angles.

The torque specification for our PolyDrop steel screws is 7 N-m or 60 inch pounds.