



Paragon Machine Works

Adjustable Dropouts

Overview

- Used for any bicycle with a single rear cog and a disc brake.
- Allow simultaneous chain tensioning and proper positioning of the brake caliper.
- With the addition of a derailleur hanger, these dropouts function as a modular dropout and allow for changes or updates to an existing frame.
- Compatibility between components is only guaranteed when using parts made by Paragon Machine Works; we cannot advise or make recommendations for parts made by other manufacturers.
- We offer our adjustable dropouts in stainless steel and titanium; we do not make them out of steel due to rust/paint issues.

Frame Components

Conventional Sliding Dropouts

- Sold as a pair (right and left sides).
- Available in stainless steel and titanium.
- Available in flat or flanged styles.
- Dropout assemblies have 0.80" of linear adjustment and are supplied with 5 mm tensioning screws.

Dedicated 12 mm Flat Sliding Dropouts

- Sold as a pair (right and left sides).
- Available in stainless steel and titanium.
- Available with and without eyelets.
- Have 0.63" of linear adjustment and are supplied with 5 mm tensioning screws.

Rocker Dropouts

- Sold as a pair (right and left sides).
- Available in stainless steel and titanium.
- Available with and without eyelets.
- Have 0.68" of arced adjustment.

All the above adjustable dropout assemblies have enough range for all common applications and will work with a chain or belt drive.

Inserts

- Each frame piece accept accepts an insert (right and left sides).
- Available in bare polished or black anodized 6061 aluminum.
- Sliding dropout inserts move in a line.
- Rocker dropout inserts move in an arc.
- Fixed in position by clamping cap screws.
- Will wear out over time, inspect them regularly and replace as needed.
- Available in a wide variety of styles, for many applications.

Right (Drive) Side

- Accommodate 10 mm or 12 mm hubs.
- 12 mm inserts are available with an M12 x 1.5 thread.
- All configurations are available with or without a derailleur hanger.

Left (Non-Drive) Side

- Accommodate 10 mm or 12 mm hubs.
- 10 mm inserts are available with:
 - No brake mount
 - ISO brake mount
 - Will work with any size brake rotor.
 - Post-style brake mount
 - For 140 mm or 160 mm rotors.
- 12 mm inserts are available with:
 - ISO brake mount
 - Will work with any size brake rotor.
 - Post-style brake mount
 - For 140 mm or 160 mm rotors.
 - Flat mount
 - For 140 mm or 160 mm rotors.

Comparison of Adjustable Dropouts

Our selection of inserts allows for many different configurations. Other than these considerations, it is a personal choice based on aesthetics, frame application, or any other feature that is important to you or your frame builder.

Conventional Sliding Dropout:

- Has more travel than our Rocker and Dedicated 12 mm Sliding dropouts.
- Has a built-in tensioning mechanism.

- The inserts are kept in place by use of a washer and cap screw that help to minimize slippage.
- Can use 10 or 12 mm inserts

Dedicated 12 mm Flat Sliding Dropout

- Eyelets and the position of the brake caliper between the stays allow the option to have rack/fender mounts.
- The location of the brake caliper between the stays may provide some protection from impact.
- Has less travel than our Conventional Sliding and Rocker dropouts.
- Has a built-in tensioning mechanism.
- When assembled, the skewer assists in maintaining the position of the inserts in the frame components, making it more robust and stable.
- The inserts are kept in place by use of a keyway, washer and cap screw that help to minimize slippage.
- Can use 12 mm inserts only.

Rocker Dropout

- Eyelets and the position of the brake caliper between the stays allow the option to have rack/fender mounts.
- The location of the brake caliper between the stays may provide some protection from impact.
- Does not have a tensioning mechanism. One is available through Ti Cycles but is not necessary if you're using a chain, just pull the wheel back and snug up the screws.
- Can use 10 or 12 mm inserts.