

Guerrilla
Gravity

pedälhead

Owner's Manual

11

Contents

- Assembly
 - Frame fittings
 - Fastener torque
 - Fork compatibility
 - Drivetrain
- Setup
 - Suspension sag, air volume spacers, and damper settings
- Maintenance and Small Parts
- Warranty
- Safety

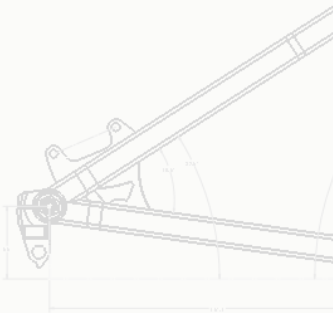
Assembly – Frame Fittings

- Headset: EC44/40 lower, ZS44/28 for tapered steer tube
- BB: Standard 73mm BSA threaded
- Seat post: $\text{Ø}31.6\text{mm}$ or $\text{Ø}30.9$ with shim, Clamp: integrated weld-on, stealth dropper post routing compatible
 - *Never insert a post into or past the beginning of the seat tube curve.
- Rear hub: 12x148, offset 3mm to the drive side
- Chainring: Up to 34 teeth, Chainline: 55mm
- Rear brake mount: International Standard
- Integrated beverage tool: International Standard

Assembly – Fastener Torque

Seat Binder

- Tighten to 10 Nm (7 lb-ft, 90 in-lb) (5mm hex)



Assembly – Fastener Torque

1. Rear Axle

1. Pinch bolt holds axle nut insert and derailleur hanger; to remove rear wheel, *only loosen axle head*
2. Tighten to 10 - 16 Nm (7 – 11 ft-lb)

2. Derailleur Hanger

1. The pinch bolt clamps the nut insert and attaches the derailleur hanger
2. Tighten pinch bolt to 10 Nm (7 lb-ft, 90 in-lb) (5mm hex)



Compatibility - Fork

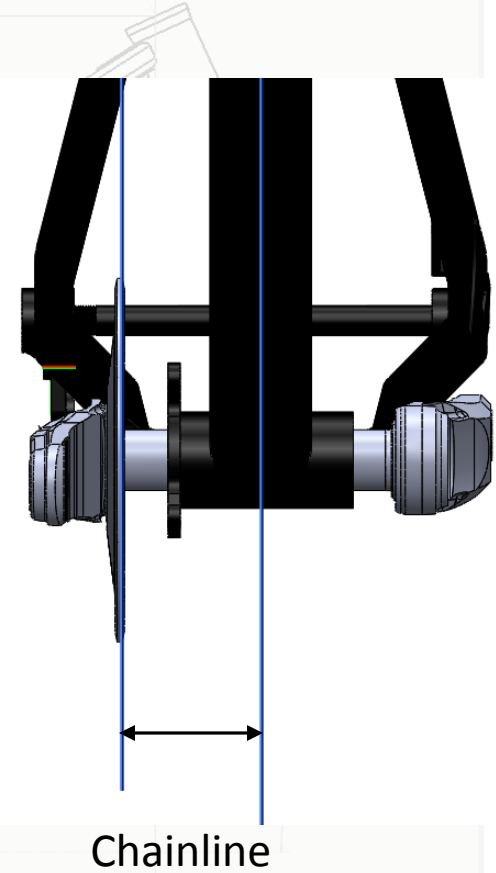
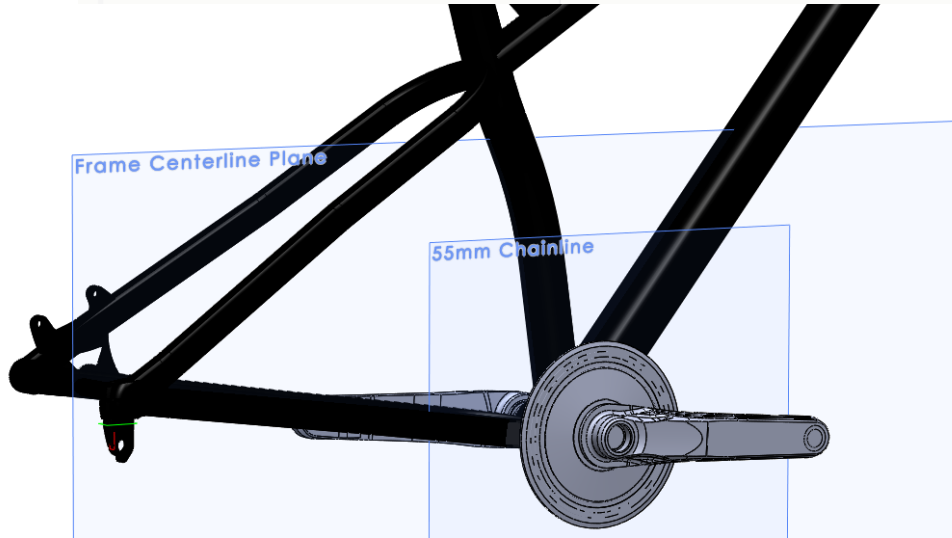
1. Allowed Fork Sizes:

1. Axle to crown height of 531mm - 551mm; eg Rockshox Pike, MRP Stage, Fox 34 29/27.5+ 120 – 140



Assembly - Chainline

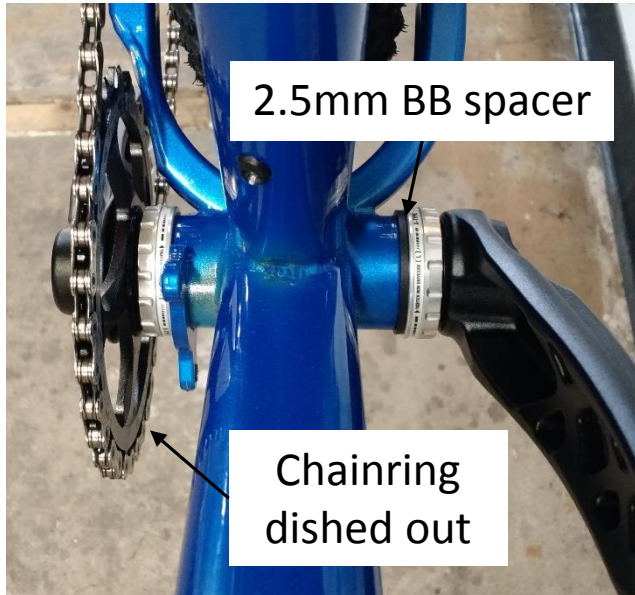
Definition: Distance between frame centerline plane and center plane of chainring



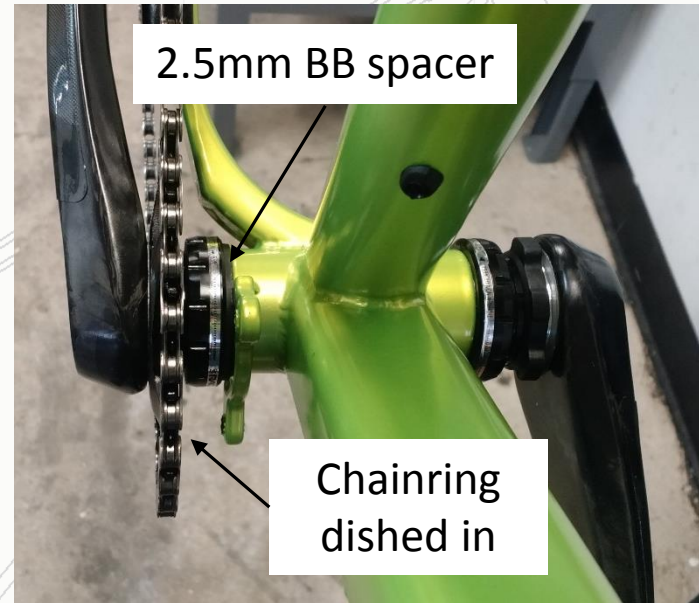
Assembly - Chainline

RaceFace – 55mm Chainline

134mm Spindle



143mm "Plus" Spindle



Note:

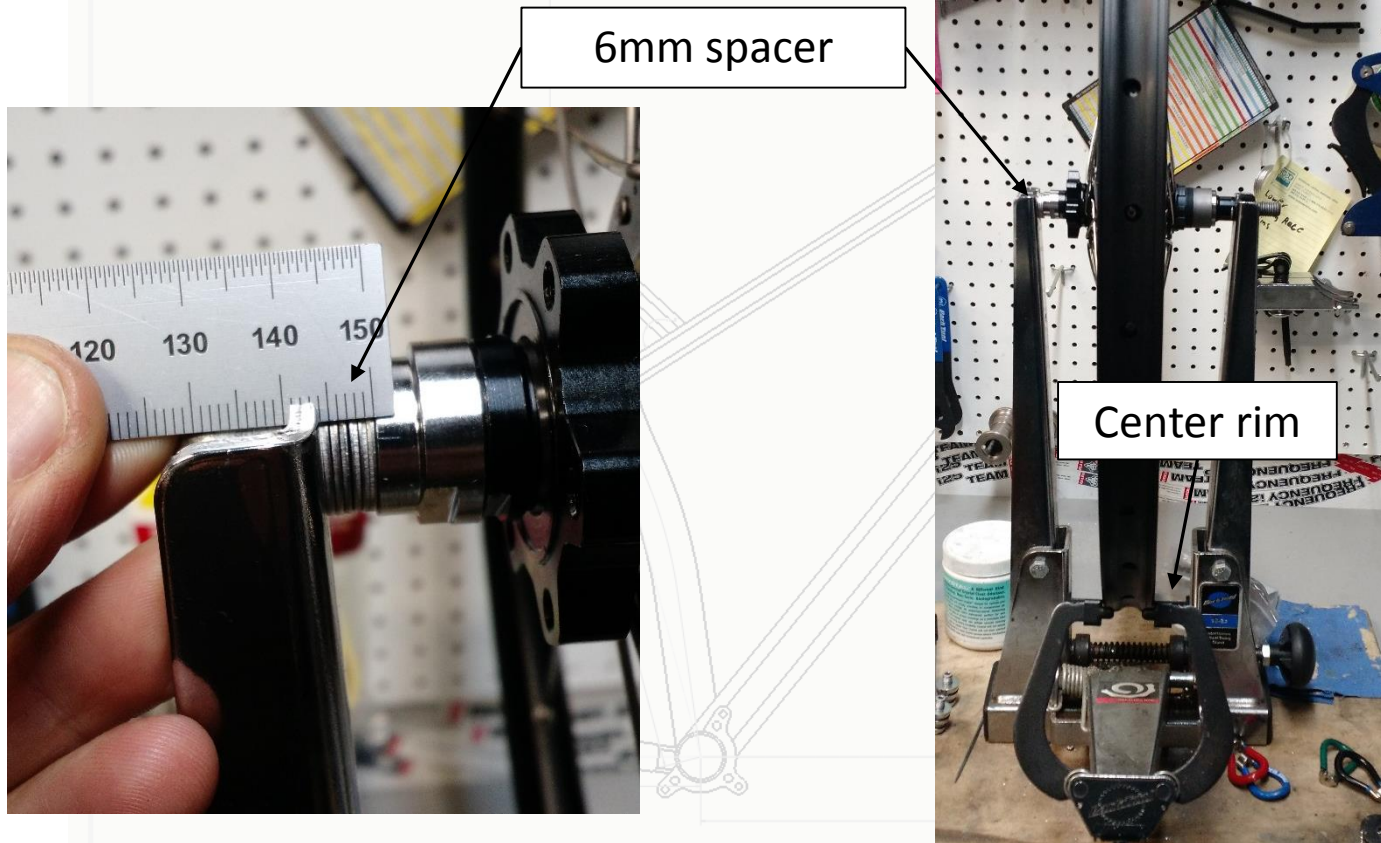
- For Sram cranks, use a 0mm offset chainring and install per normal method

Assembly - Rear Hub Offset

12x148 Rear Hub, Offset 3mm to the Drive Side

6mm Spacer on Non Drive Side

True Wheel With 6mm Spacer

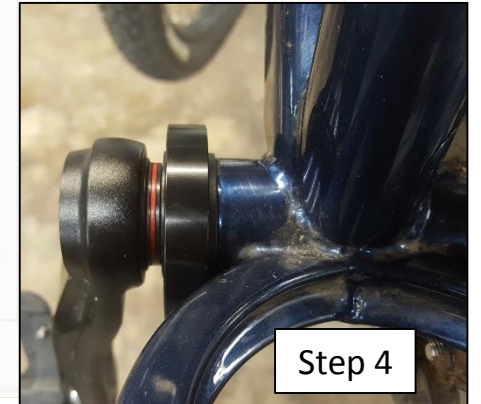
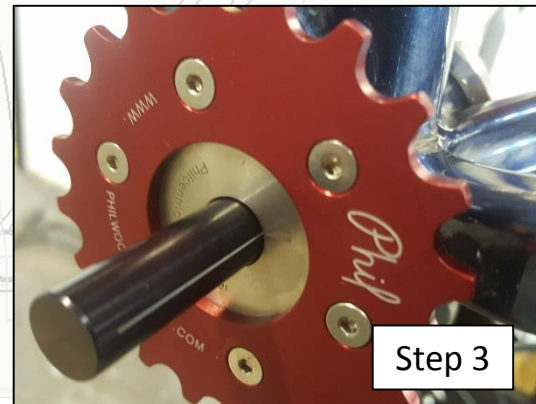


Note: You *do* need to use a 6mm spacer on a traditional truing stand to offset the hub 3mm.

Assembly – Single Speed

The recommended method for running single speed on the Pedälhead involves the Phil Wood Philcentric Eccentric BB. Note the installation of the Philcentric BB must be done by Guerrilla Gravity or a bike shop, and requires the Philcentric installation tool. **Follow the instructions from Phil Wood**, in addition to the below tips.

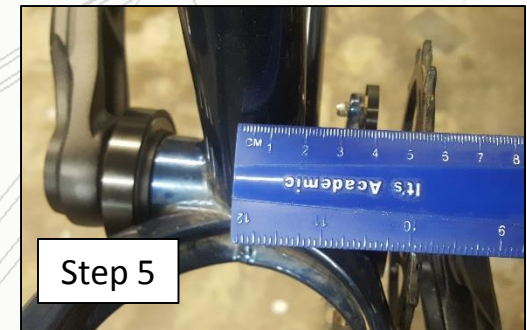
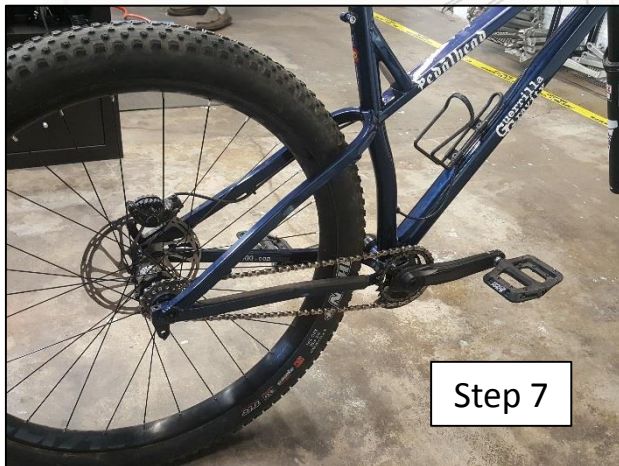
1. Clean and degrease inside of BB shell
2. Install Philcentric cups with one 2.5mm BB spacer on each side as shown
3. Non drive cup alignment graphic
4. Remove 2mm of spindle spacers from the non drive side of the crank



Assembly – Single Speed

The recommended method for running single speed on the Pedälhead involves the Phil Wood Philcentric Eccentric BB. Note the installation of the Philcentric BB must be done by Guerrilla Gravity or a qualified bike shop, and requires the Philcentric installation tool. **Follow the instructions from Phil Wood**, in addition to the below tips.

5. Verify chainline is 55mm upon crank installation
6. While adjusting BB position for chain tension, it can be helpful to slide the drive side hub end cap forward slightly to install the chain
7. After the thread locker on the Philcentric is cured, reapply frame corrosion protection to the exposed inside of BB shell



Note: A half link in the chain may be necessary for some setups

Setup – Sag, Air Volume, Dampers

1. Sag Recommendations for the Fork

1. Sag numbers are obtained by measuring the suspension travel used to statically support your weight, geared up to ride.
2. To measure sag, set the damper settings relatively soft, sit on the bike in climbing position, with the seatpost at full height, naturally weight the handlebars. This method produces the most usable and repeatable measurements.
3. Lightly bounce up and down to break any seal stiction, return to the seated climbing position and push the fork O-ring against the fork seal. Lean to the side to dismount without further compressing the suspension.
4. Measure the fork travel used to support your weight
5. Fork sag recommendation: 10 - 15% = 12 - 18mm on a 120mm travel fork

2. Damper Settings

1. The spring supports your weight, and should be optimized first
2. Compression damping then controls dive speed. Insufficient compression damping makes the bike dive too easily under braking and feel unstable in hard cornering. Excessive compression damping diminishes small bump compliance and makes the wheel deflect off obstacles.
3. Rebound damping controls how fast the suspension returns from being compressed. In general, the fastest rebound setting that doesn't allow wallowing works best. Rebound damping is a function of spring stiffness, so if spring rate is increased, rebound damping will need to be proportionally increased as well.

3. Tuning

1. Suspension settings are iterative and personal for different terrain and rider weights and riding styles
2. Fork air volume: for extra aggressive riding, we recommend running more air volume spacers in the fork to make a more progressive spring. On the MRP Stage, increase Ramp Control for this, and on a Rockshox Pike, add bottomless tokens to the spring, for example.
3. Baselines are meant to be exactly that. Further tuning is encouraged to refine the ride for you and your terrain. Feel free to ask us for advice: Bikes@RideGG.com

Maintenance

1. Every Ride Checklist

1. Check for loose bolts. This does not mean to over-tighten the bolts every ride. Check to see if any bolts have loosened, and if so, then retighten them to the torque specs provided in this manual.
2. Check the brakes for proper operation
3. Check tire pressure
4. Clean and lube the chain and drivetrain
5. Make sure your headset is tight by holding the front brake and rocking the bike back and forth and feeling for play or slop at the headtube, headset bearing cup junction
6. Clean all stanchions, including the fork, shock and dropper post.

2. Every 10 Rides Checklist

1. Check to make sure your brake pads have sufficient pad material left, replace if they are close to being worn down to the metal base
2. Make sure your tires are safe to ride on. Look for damaged casings, knobs are still in tact, and there is no dry rotting.
3. Check chain wear. Bike shops have a tool to measure this, if the wear is beyond 75% of the usable range, replace it.
4. Check spoke tension for both wheels. If a spoke is loose, tighten it so that it's tension is uniform with the other spokes.

3. Every 20 Rides Checklist

1. Clean frame and check for damage or cracks
2. Replace shifter cable and housing
3. Check brakes, suspension and dropper seat post for smooth operation and service them if necessary.

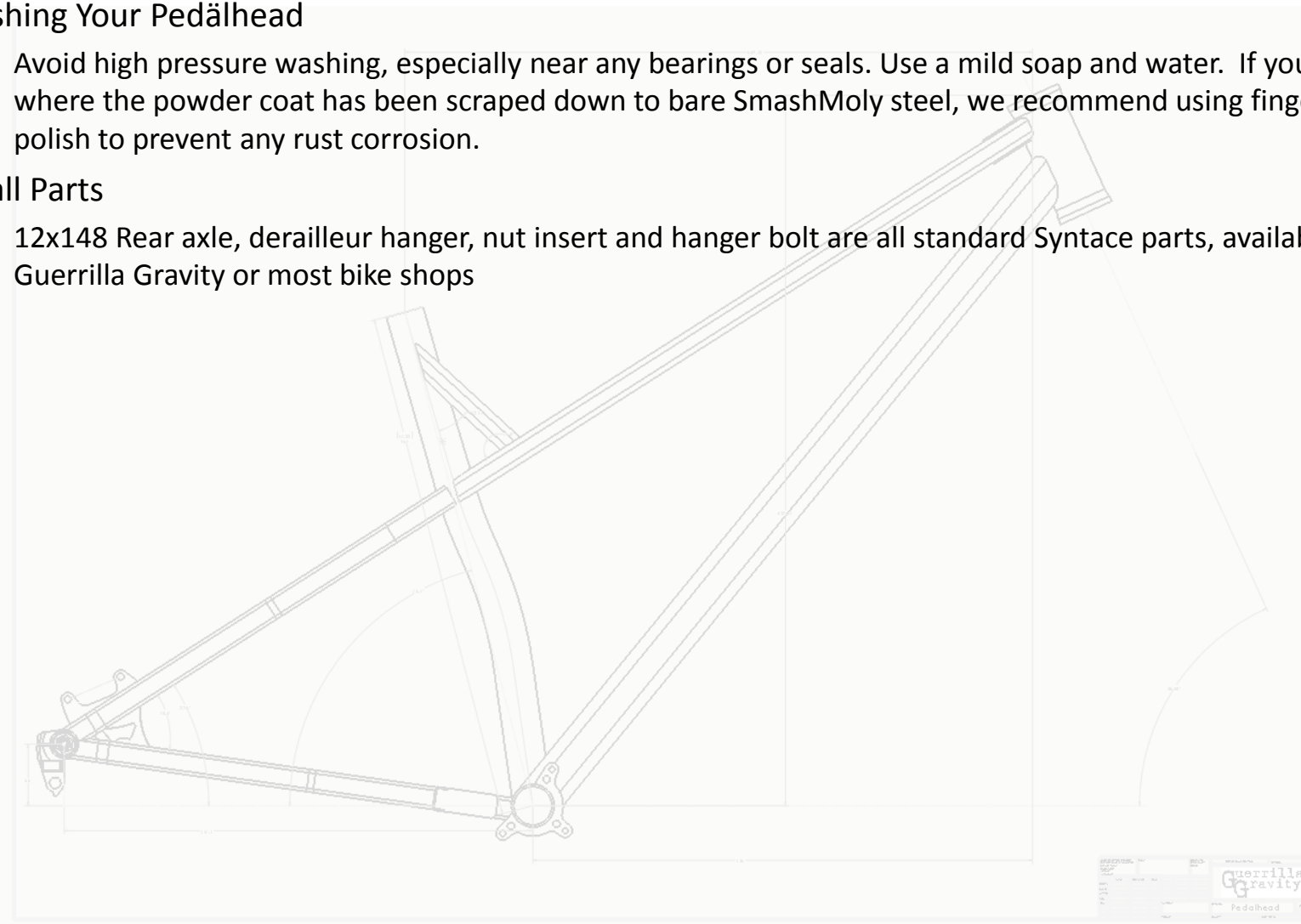
Maintenance

1. Washing Your Pedalhead

1. Avoid high pressure washing, especially near any bearings or seals. Use a mild soap and water. If you find areas where the powder coat has been scraped down to bare SmashMoly steel, we recommend using fingernail polish to prevent any rust corrosion.

2. Small Parts

1. 12x148 Rear axle, derailleur hanger, nut insert and hanger bolt are all standard Syntace parts, available from Guerrilla Gravity or most bike shops



Warranty

1. One-year frame warranty

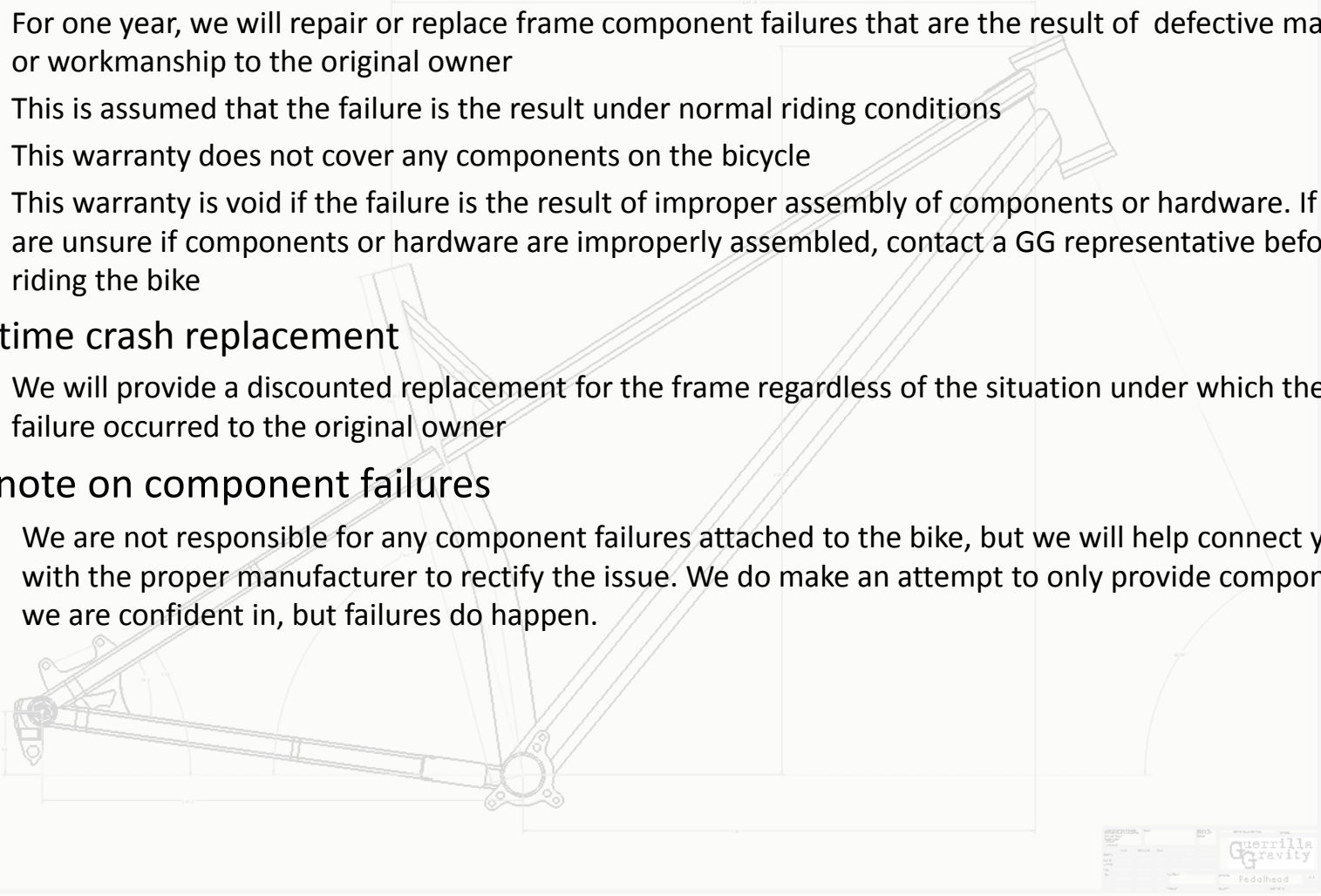
1. For one year, we will repair or replace frame component failures that are the result of defective materials or workmanship to the original owner
2. This is assumed that the failure is the result under normal riding conditions
3. This warranty does not cover any components on the bicycle
4. This warranty is void if the failure is the result of improper assembly of components or hardware. If you are unsure if components or hardware are improperly assembled, contact a GG representative before riding the bike

2. Lifetime crash replacement

1. We will provide a discounted replacement for the frame regardless of the situation under which the failure occurred to the original owner

3. A note on component failures

1. We are not responsible for any component failures attached to the bike, but we will help connect you with the proper manufacturer to rectify the issue. We do make an attempt to only provide components we are confident in, but failures do happen.



Safety

1. Mountain biking is an inherently dangerous sport, and the risk is yours to keep yourself safe while riding by wearing the proper protective equipment and riding within your abilities at all times. Guerrilla Gravity is not liable for any injuries you incur while riding and/or crashing.
2. If you ride at night, use lights and reflectors.
3. If your bike is less than fully assembled when you receive it, take it to a qualified mechanic. If you assemble it yourself, we assume no responsibility for improper construction leading to equipment failure or personal injury. If you're in doubt about who is a qualified mechanic, call us and we'll help you find one in your area.
4. Minimum leg length – If there is less than one inch between your crotch and the top tube, the bike is too big for you. Oops. Let us know if this is the case for you.
5. Serial number – Each Guerrilla Gravity bike has a serial number on the bottom of the bottom bracket. This number denotes the model, date of fabrication, and manufacturing location. Make a note of this number in your records in case your bike is stolen.

