

## **GIGA MX GUIDE - HOW TO FIT MX REAR TRIANGLE TO GIGA 290 FRAME**

Welcome to the party, business up front, party at the back. Developed with our athletes for a no compromise dedicated mullet set-up. This guide shows you how to install your new MX rear triangle to your Giga 290 and join the party. This is also a good opportunity to change your gear cable, bleed your brakes, clean/grease pivots and bottom bracket interfaces. No bearings need removed or fitted to install this kit. If you are unsure on fitting the kit or do not have the correct tools, please consult with a reputable local mechanic or your Nukeproof dealer to install. This is a full and concise guide, but any queries please contact your dealer or email us at [info@nukeproof.com](mailto:info@nukeproof.com).

### **KIT CONTENT – 1 X MX REAR TRIANGLE**

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#### **TOOLS REQUIRED –**

- Allen Keys
- Torque Wrench
- Cable Cutters
- Chain Link Splitter
- Hollowtech Tool (Shimano Cranks Only)
- Grease
- Thread Lock (Loctite 243)
- Bleed Kit to suit your brakes
- Hose cutter
- Cassette Lockring tool
- Chain Whip



#### **PARTS REQUIRED –**

- Inner Gear cable
- Cable End
- Olive and Barb to match your brake

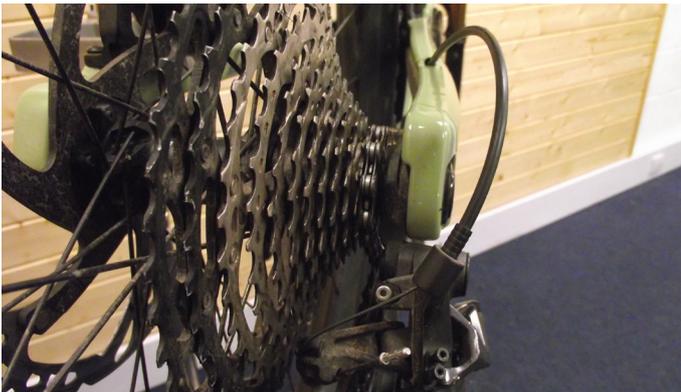
### **REMOVAL OF COMPONENTS AND 290 REAR TRIANGLE**

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It is important the [exploded diagram](#) is referenced while changing the rear triangle.

#### **STEP 1 – REMOVE REAR WHEEL**

Shift gears into the smallest cassette sprocket, put clutch into open position (Shimano) or Cage Lock (SRAM), remove rear axle with 5mm Allen Key and remove wheel from bike. Set aside rear axle.



1. Shift gears into smallest sprocket



2. Put clutch into open position



3. Remove rear axle with 5mm Allen Key



4. Remove rear wheel

## STEP 2 – REMOVE CHAIN

Using a split link tool, split chain link and remove chain from bike. Set aside to refit later.



1. Locate Split link



2. Separate link with Split Link Tool



3. Remove chain from bike

### STEP 3 – REMOVE MUDGUARD

The Mudguard (18) will need to be removed, this is attached by 3 bolts (19) with a 3mm Allen Key and set aside. These bolts can be referenced in the exploded diagram.



1. Mudguard is held in place with 3 Allen Keys



2. Use a 3mm Allen key to remove bolts

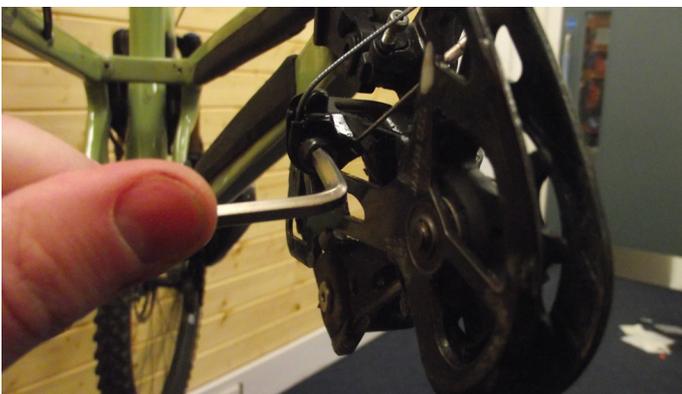


3. Remove mudguard from bike

### STEP 4 – REMOVE DERAILLEUR AND GEAR HANGER

Undo inner gear cable bolt of derailleur, snip off cable end and dispose, undo derailleur hanger bolt and set derailleur aside. Remove outer cable ferrule and set aside to re-use. Remove inner cable and dispose. The Universal Derailleur Hanger (UDH) (20) removal and fitting is detailed in the following SRAM video and document. Please remove the UDH Stop Bolt (21) and set aside with a 3mm Allen Key.

[SRAM UDH Video](#)  
[SRAM UDH Document](#)



1. Undo Cable Bolt



2. Snip cable end



3. Remove derailleur



4. Remove ferrule



5. Remove inner gear cable



6. Remove UDH, note reverse thread



7. UDH Removed

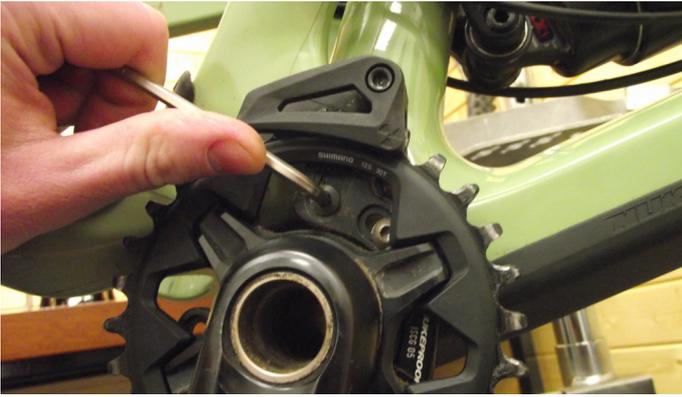


8. Remove UDH Stop Bolt

**Note** – Step 5 and 6 can be omitted, the rear triangle can be removed and fitted with the chainguide and crankset installed. Please take care that the Main Pivot Nut (14) does not become unseated and stuck between the rear triangle and chainguide. Damage to the frame and components can happen if care is not taken.

## STEP 5 (OPTIONAL) – CRANKSET REMOVAL

Loosen chain guide cage height adjuster, move up to clear chainring. Undo crankbolts, remove crankset from bike and set aside to re-fit later.



1. Loosen upper guide adjuster bolt with 4mm Allen Key



2. Slide up to clear chainring



3. Loosen crank bolts with 5mm Allen Key



4. Remove pre-load bolt



5. Remove crankset

## STEP 6 (OPTIONAL) – CHAINGUIDE REMOVAL

Take note of how many spacers are between the frame and guide before removing the bolts. Taking a 4mm Allen Key remove the bolts, set guide, spacers and fitting bolts to one side.



1. Undo chainguide bolts



2. Removed guide reveals Main Pivot Nut (14)

## STEP 7 – REMOVE REAR BRAKE

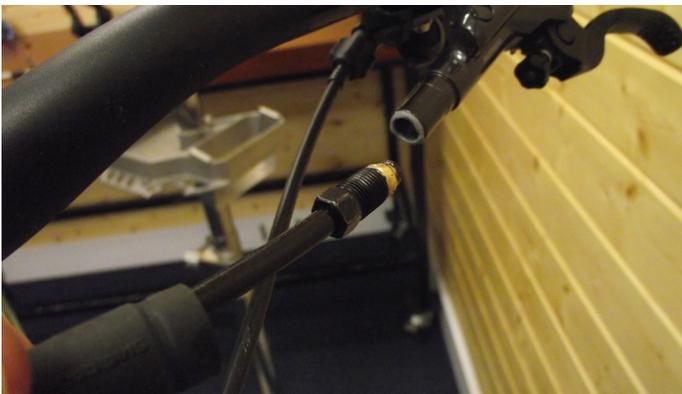
Remove nut cover from brake hose, partially loosen hose nut with 8mm spanner, pull the hose to unseat the hose olive from the brake lever, once unseated fully undo the bolt and remove hose from lever. Trim off olive and barb from hose, losing this hose length is not a concern as your new MX rear triangle is shorter. Undo Brake Mount Bolts (22) with a 4mm Allen Key, remove caliper with Brake Mount still attached (23) and pull hose through frame, careful to wipe up any lost hydraulic fluid. Place frame grommets and caliper aside.



1. Remove nut cover and partially loosen nut



2. Pull hose to safely unseat from lever



3. Completely undo hose nut and remove



4. Snip hose to remove olive and barb



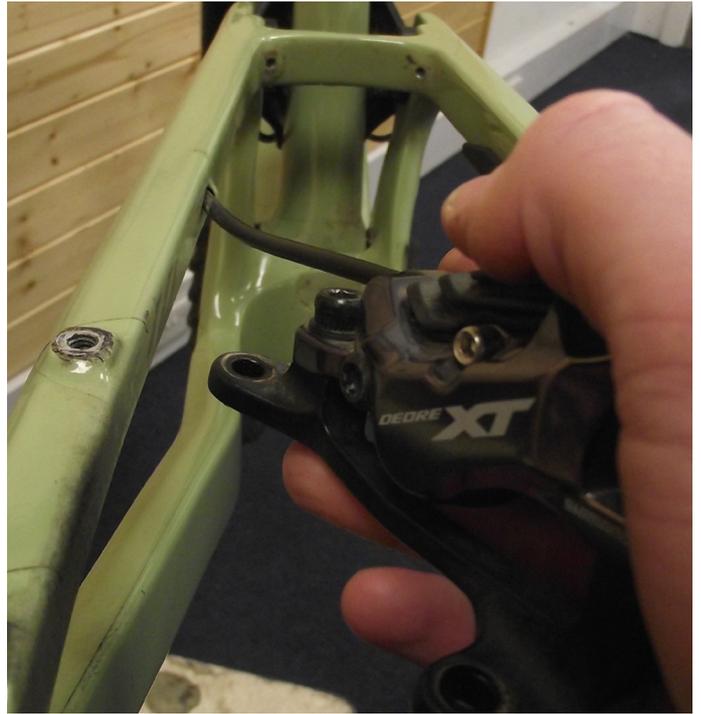
5. Set nut cover and hose nut to one side



6. Undo Brake Mount Bolts (22)



7. Caliper and mount will come off as one



8. Pull brake hose through frame



9. Careful that frame bungs are not lost and set aside

## STEP 8 – REMOVE REAR HORSE LINK BOLTS

These bolts can be referenced in the Exploded Diagram (green) for the Giga frame, part number 11 and found on drive and none-drive side of your frame. Remove Horse Shoe Bolt (11) with a 6mm Allen Key and set aside. \*Do not remove front Horse Bolt and Washer from the Swing Link (28).



1. Remove Horse Shoe Link bolt with 6mm Allen key



2. Remove both sides



3. Bolts removed shows Bearings



4. Allow rear triangle to rest on frames BB shell

## STEP 9 – REMOVE MAIN PIVOT

The Main Pivot can be referenced in the Exploded Diagram (red), this consists of parts 14, 15, 17, 24, 25 and 26. Using an 8mm Allen key, undo the main Pivot Axle (25) and remove, be careful not to drop Main Pivot Nut (14) from the drive side of the frame. Set aside parts (14/15/25/26) from the frame, parts 17 and 24 remain in the frame. 24 can be removed for fresh grease if needed. You can now remove the 290 rear triangle. The Horse Shoe Washers (13) can now be accessed and set aside.



1. Undo Main Pivot bolt with 8mm Allen Key



2. Remove Main Pivot Bolt (25) and Collect Washer (26)



3. The rear triangle can now be removed



4. Main Pivot Flip Axle (24) can be left in the frame or removed for clean/grease



5. Horse Shoe Washer (13) now visible and can be removed



6. Horse Shoe Washer (13) removed

## INSTALLATION OF MX REAR TRIANGLE

Please reference the 2nd page of the exploded diagram for parts that will need greased and thread locked. Please reapply grease and thread-lock to areas in the diagram to ensure smooth action of the MX rear triangle and to ensure the bolts stay tight.

## STEP 10 – INSTALLATION OF MAIN PIVOT

Install the Horse Shoe Washers (13) first and apply fresh grease, grease will hold the washers to the Horse Link. Clean main pivot parts to ensure no debris, parts 25 and 15 will need fresh grease. Apply thread lock to Main Pivot Axle (25) threads. Fit Main Pivots Washer (15) to frame, grease will hold it in place. Install Main Pivot bolt (25) and Collect Washer (26) to 19Nm with an 8mm Allen Key Torque Wrench.



1. Install greased Horse Shoe Washer (13) to Horse Link



2. Install Main Pivot Washer (15) to frame



3. Place MX triangle to frame, rest on BB shell and the Horse Shoe Link will overlap at this point



4. Install Main Pivot Bolt (25) and Collect Washer (26)



5. Install Main Pivot Nut (14) to MX triangle



6. Tighten Main Pivot Bolt to 19Nm with 8mm Allen Key Torque Wrench

## STEP 11 – REFIT HORSE LINK BOLTS

The Horse Bolt (11) now need fitted to the Horse Link Shoe (27). Clean all parts before installing. Thread lock is required for the Horse Shoe bolts. Align the Horse Link Shoe to the two threaded holes in the rear triangle. The Horse Bolts need tightened to 19Nm with a 6mm Allen Key Torque Wrench.



1. The MX triangle can now be installed to the Horse Shoe Link



2. Align the MX triangle with the Horse Shoe Link



3. Thread in Horse Shoe Bolt



4. Tighten Horse Shoe Bolt to 19Nm with a 6mm Allen Key Torque Wrench



5. Repeat on both sides



6. MX triangle is now installed

## STEP 12 – CHAIN GUIDE

To refit guide please reference our following installation document, please refit spacers to the same positions before they were removed.

[Nukeproof – Fit Chain Guide](#)



## STEP 13 – CRANKSET

Please reference manufacturer instructions for installing your crankset. Clean inside of bottom bracket bearings and crankset spindle, apply fresh grease to bearings and spindle before refitting.

[Shimano Crankset Install](#)

[SRAM Crankset Install](#)



## STEP 14 – INSTALL UDH HANGER

Please reference the SRAM video and document to install the UDH hanger. The UDH Stop Bolt (21) needs fitted to the MX rear triangle and tightened to 3Nm with a 3mm Allen Key.

[SRAM UDH Video](#)

[SRAM UDH Document](#)



1. Install UDH Stop Bolt (21)



2. Install UDH and tighten to 25Nm with 8mm Torque Wrench



## STEP 15 – INSTALL DERAILLEUR

Refit your derailleur to the bike, please follow manufacturers guidelines on installation and set-up. Pass outer cable through rear triangle and install new inner gear cable, refit ferrule to outer gear cable, install inner cable to derailleur, trim inner cable and fit cable end.

[Shimano Derailleur Install Manual](#)

[SRAM Derailleur Install Manual](#)



## STEP 16 – REFIT MUDGUARD

The Mudguard (18) needs fitted before the rear wheel is installed, install the 3 Mudguard Bolts (19) with a 3mm Allen Key to secure the guard to the MX rear triangle.



## STEP 17 -TRANSFER ROTOR AND CASSETTE TO NEW WHEEL AND INSTALL TO BIKE

Before fitting the chain and disc brake caliper, the new 27.5" rear wheel will need installed. Please follow the manufacturers instruction manuals to correctly install your disc and cassette.

[Shimano Center-Lock and 6 Bolt Disc Rotor](#)

[Shimano Cassette Install](#)

[SRAM Center-Lock and 6 Bolt Disc Rotor](#)

[SRAM Cassette Install](#)

The rear through axle needs installed with a 5mm Allen Key and tightened to 12Nm. Lightly grease the axle threads before installing.

## STEP 18 - INSTALL CHAIN

Please reference manufacturers install guide for chains, your chain may need trimmed to account for the shorter MX rear triangle. Once you have checked the chain length and trimmed if appropriate you can connect the joining pin.

[Shimano Chain Install](#)

[SRAM Chain Install](#)

## STEP 19 – INSTALL REAR BRAKE

Firstly pass rear hose through MX triangle and frame. Install the caliper and Brake Mount (23) to the rear triangle. The Brake Mount Bolts (22) need thread lock and tightened to 10Nm with a 4mm Allen Key. Ensure frame Grommets are installed and seated correctly. Please refit hose to the lever following the manufacturer instructions to install and bleed.

[Shimano Disc Install](#)

[SRAM Disc Install](#)



1. Thread brake hose through MX triangle



2. Thread hose through frame



3. Hose will exit at headtube, reseal frame grommets



4. Place brake and thread in Brake Mount Bolts (22)



5. Tighten Brake Mount Bolts (22) to 10Nm with 4mm Allen Key Torque wrench

## STEP 20 – GO SHRED



Nukeproof does not bear responsibility for any part/s damaged by incorrect tools or installation, any doubts please contact a reputable local mechanic or your dealer. All frame spares are available through an authorised dealer.