



MANUALS & DOCUMENTS

**SUMMUM**

# SUMMUM

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## MANUALS & DOCUMENTS





## GENERAL AND SAFETY INSTRUCTIONS

This technical guide may use the following 3 icons. Each icon denotes that the following precautions should be taken:

### **WARNING:**

Improper use or failure to follow directions may result in serious injury or death. These tasks are technically difficult and, if not performed properly, could cause damage to your bicycle or void your warranty.

### **CAUTION:**

Improper use or failure to follow directions may result in minor injuries. These tasks are technically difficult and, if not performed properly, could cause damage to your bicycle or void your warranty.

### **INFORMATION**

Essential information to correctly perform this task in order to avoid any damage to the bicycle or void the warranty, without any risk to people.

## FURTHER CONSIDERATIONS

- Using non-original spare parts can lead to damage, malfunctions and accidents with potentially serious consequences.
- Some of the steps described in this manual require skills beyond those of the average bicycle user. If you are unable to follow any of these steps, please arrange for your bicycle to be serviced and replaced at an authorized Mondraker service centre. Installing spare parts incorrectly may result in malfunctions, accidents, injuries and void the warranty.

## CLEANING AND MAINTENANCE

- Once the parts have been disassembled, components to be reused should be cleaned, greased and thread sealed (if necessary).

## SYMBOL LEGEND



Medium grade threadlocker. Loctite 243 or similar.

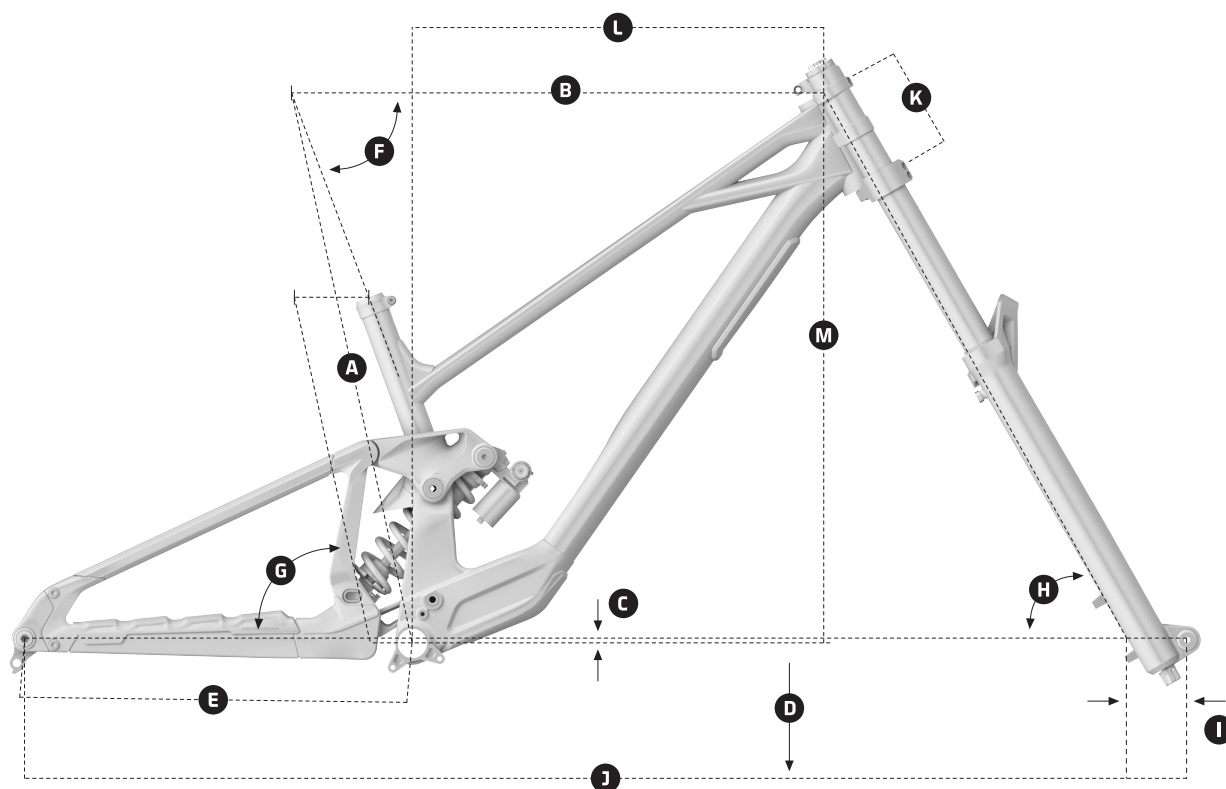


Quality synthetic assembly grease.



Special carbon friction grease.

## 1. DIMENSIONS



### SUMMUM

| FRAME SIZE                          | M [STD]   | L [STD]   | XL [STD]  |
|-------------------------------------|-----------|-----------|-----------|
| <b>A</b> Seat Tube Length           | 400 mm    | 400 mm    | 400 mm    |
| <b>B</b> Top Tube Length            | 710 mm    | 740 mm    | 770 mm    |
| <b>C</b> Bottom Bracket Drop        | -5 mm     | -5 mm     | -5 mm     |
| <b>D</b> Bottom Bracket Height      | 350 mm    | 350 mm    | 350 mm    |
| <b>E</b> Chainstay Length           | 455 mm    | 455 mm    | 455 mm    |
| <b>F</b> Seat Tube Angle, Actual    | 78°       | 78°       | 78°       |
| <b>G</b> Seat Tube Angle, Effective | 70°       | 70°       | 70°       |
| <b>H</b> Headtube Angle             | 62,5°     | 62,5°     | 62,5°     |
| <b>I</b> Fork Offset                | 52 mm     | 52 mm     | 52 mm     |
| <b>J</b> Wheelbase                  | 1285,4 mm | 1315,4 mm | 1345,4 mm |
| <b>K</b> Headtube Length            | 120 mm    | 120 mm    | 120 mm    |
| <b>L</b> Reach                      | 450 mm    | 480 mm    | 510 mm    |
| <b>M</b> Stack                      | 642,6 mm  | 642,6 mm  | 642,6 mm  |

**HEADSET CUP REACH ADJUST** +/-5mm **CHAINSTAY LENGTH ADJUST** +/-5mm **SHOCK FLIP CHIP ADJUST** +/-5mm BB height, 0,35° angles

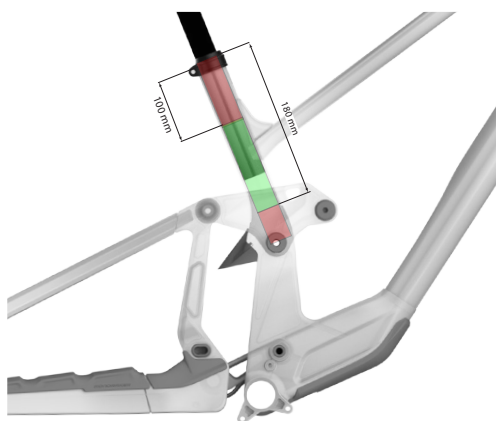


Visit <https://mondraaker.com/wo/en/frameset-summum-rr-mullet> to configure your custom geometry and get precise data based on the flip chip, dropout, and headset cup positions.

## 2. FRAME TECHNICAL SPECIFICATIONS

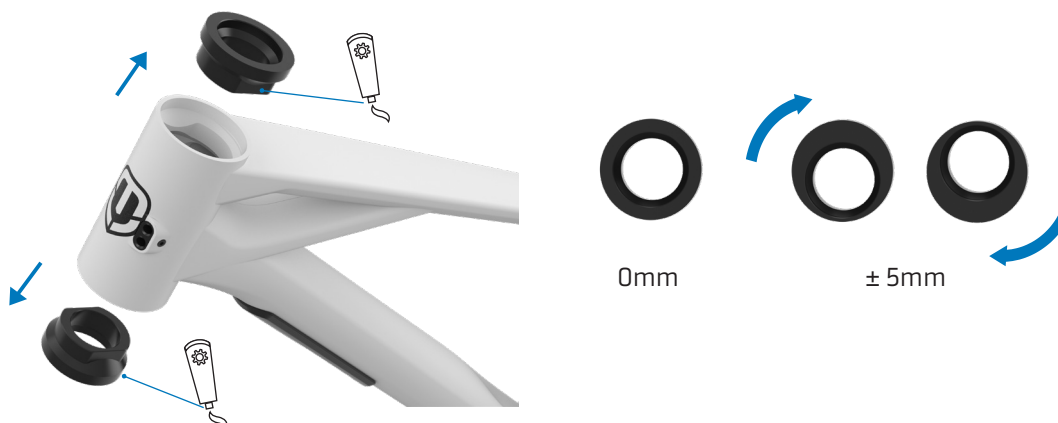
|                                      |                                                               |
|--------------------------------------|---------------------------------------------------------------|
| <b>FRAME SIZES</b>                   | M / L / XL                                                    |
| <b>FRONT WHEEL SIZE</b>              | 29"                                                           |
| <b>FRONT AXLE</b>                    | 110mm x 20mm (BOOST)                                          |
| <b>REAR WHEEL SIZE</b>               | 27,5"                                                         |
| <b>REAR AXLE</b>                     | 157mm x 12mm (DH)                                             |
| <b>REAR SHAFT</b>                    | 12X157 P1.0 L183 (head 19mm OD)                               |
| <b>NUMBER OF BOTTLE CAGES</b>        | 1                                                             |
| <b>BOTTOM BRACKET</b>                | BSA 83mm                                                      |
| <b>REAR WHEEL TRAVEL</b>             | 200mm                                                         |
| <b>REAR SHOCK</b>                    | 225 x 75mm TRUNNION, 30 x 8mm                                 |
| <b>FRONT WHEEL TRAVEL</b>            | 200mm                                                         |
| <b>SEATPOST/SEAT CLAMP DIAMETER</b>  | 31.6mm / 34.9mm                                               |
| <b>CHAIN LINE</b>                    | 57mm                                                          |
| <b>HEADSET</b>                       | Onoff DH ARS (Adjustable Reach System) 1-1/8", 1-1/8"         |
| <b>MAXIMUM CHAINRING SIZE</b>        | 36T                                                           |
| <b>REAR BRAKE</b>                    | POST MOUNT CUSTOM ADAPTER, DIRECT 200 (220mm max with spacer) |
| <b>MAXIMUM COMPATIBLE WHEEL SIZE</b> | 27'5x2.6                                                      |

## 3. SEATPOST INSERTION DEPTH



| FRAME SIZE | MIN. (mm) | MAX. (mm) |
|------------|-----------|-----------|
| <b>XL</b>  | 100       | 175       |
| <b>L</b>   | 100       | 175       |
| <b>M</b>   | 100       | 175       |

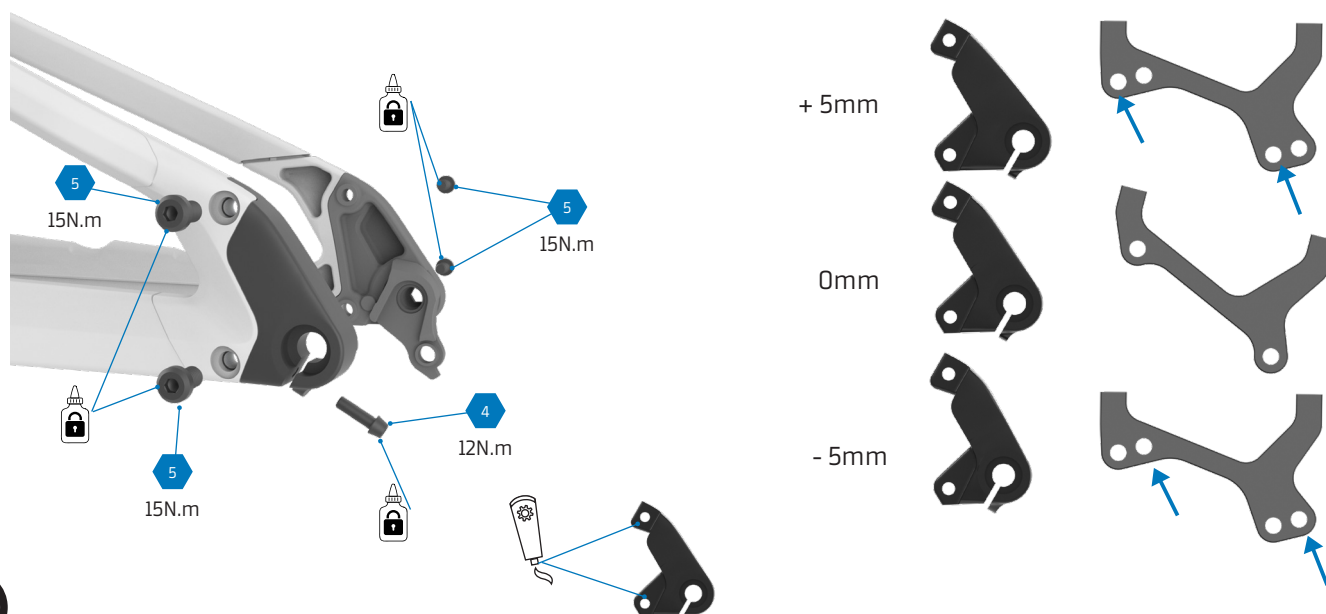
## 4. HEADSET CUPS



The upper and lower headset cups must always be installed with the same orientation of their eccentricity. Using these cups allows you to modify the reach length.

To adjust the head angle, the frame's flip chip system must be used. Remember to apply a light layer of assembly grease to the contact surfaces prior to installation.

## 5. DROPOUTS

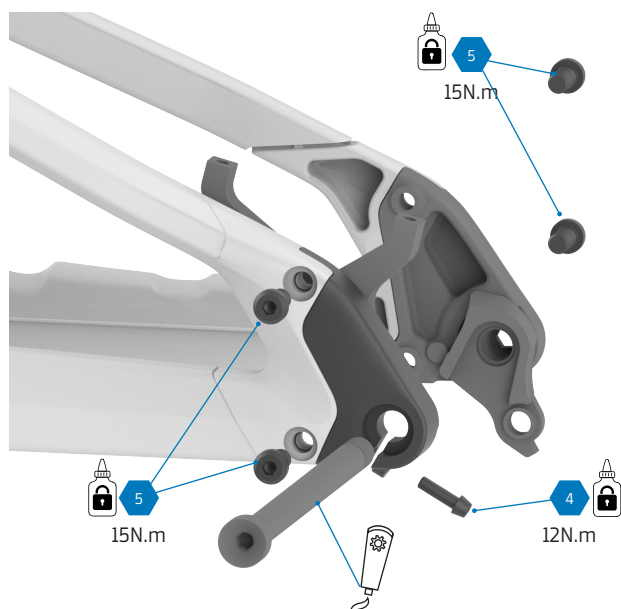


The bicycle comes standard with stock 0mm dropouts. If you install larger or smaller dropouts, **it is mandatory to also replace the brake caliper adapter**. The standard mount is only compatible with the stock dropouts.



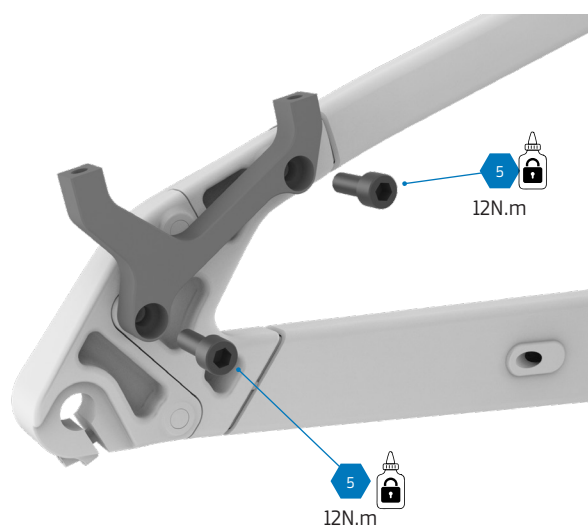
Visit <https://mondraaker.com/wo/en/frame-set-summum-rr-mullet> to configure your custom geometry and get precise data based on the flip chip, dropout, and headset cup positions.

## 6. INSERT REAR AXLE



1. Slightly loosen the dropout bolts (approximately 3/4 turn) and loosen the pinch bolt.
2. Insert the axle and tighten to the specified torque.
3. Tighten the dropout bolts to the specified torque.
4. Tighten the pinch bolt to the specified torque.

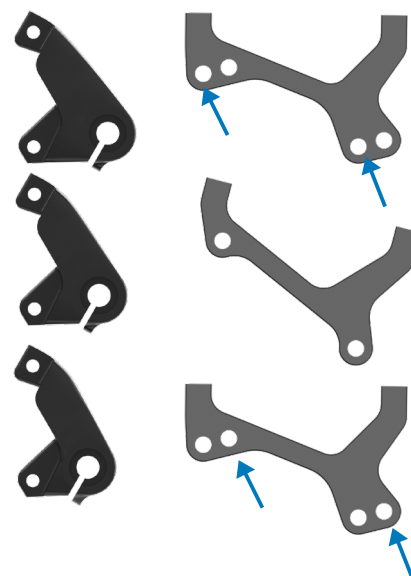
## 7. BRAKE MOUNT ADAPTER



+ 5mm

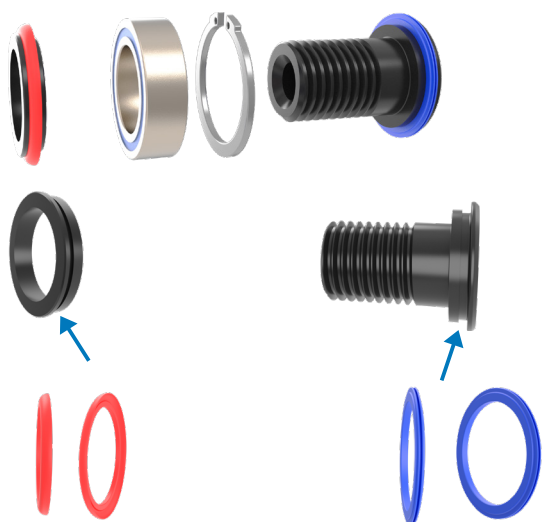
0mm

- 5mm



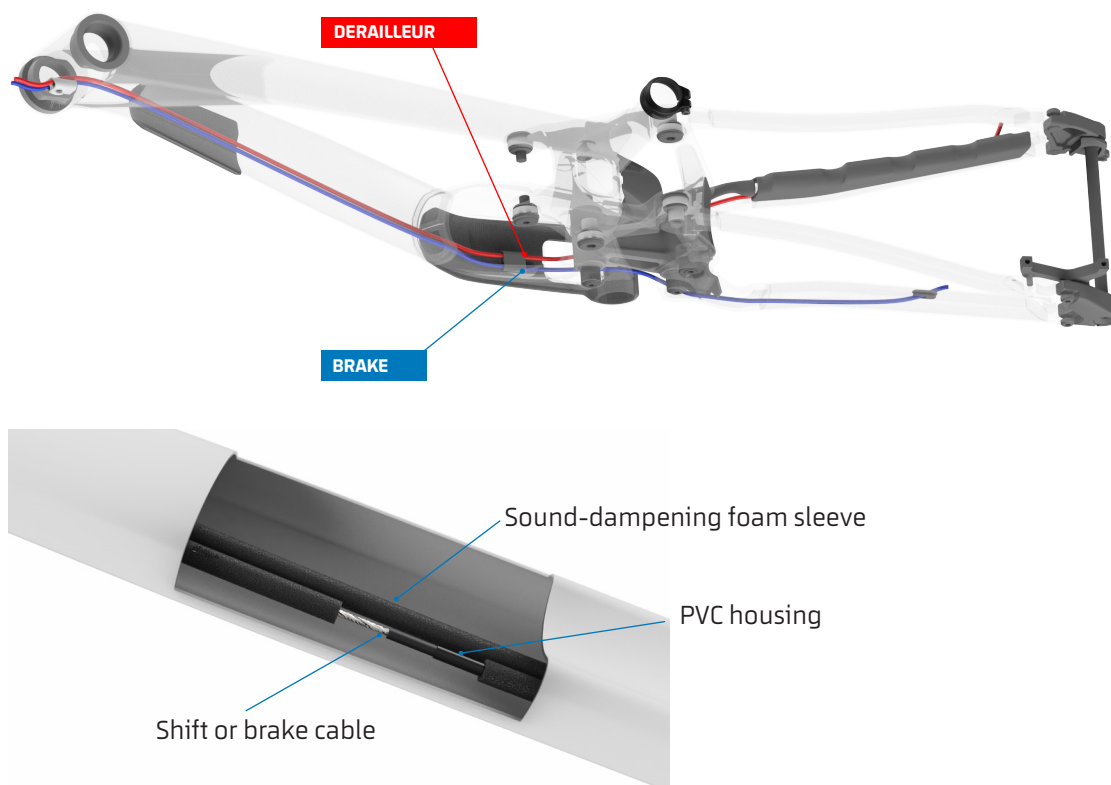
Visit <https://mondraaker.com/wo/en/frame-set-summum-rr-mullet> to configure your custom geometry and get precise data based on the flip chip, dropout, and headset cup positions.

## 8. RUBBER SEALS

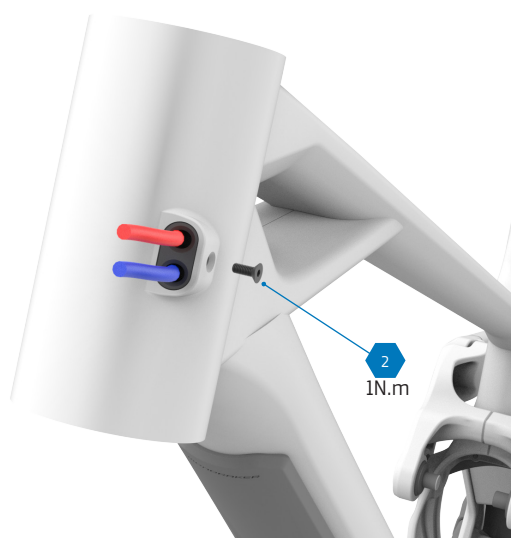


Pay attention to the position and shape of the rubber seals. Colours red and blue are used for illustration purposes, but the actual rubber seals are black.

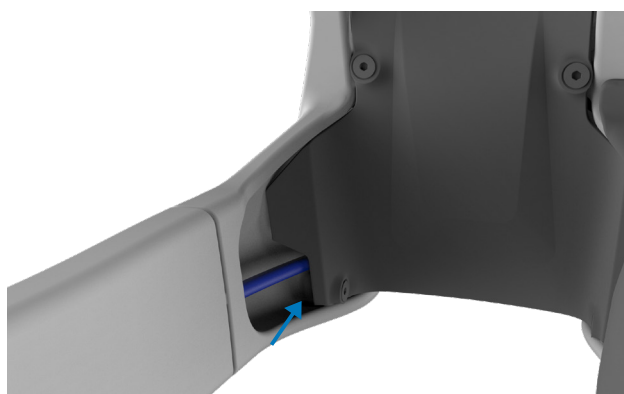
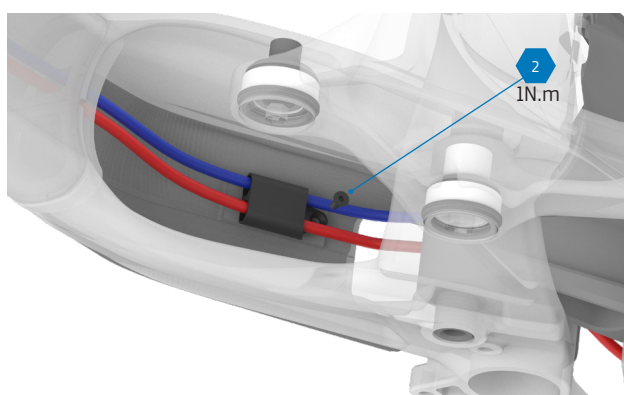
## 9. INTERNAL CABLE ROUTING



## 9. INTERNAL CABLE ROUTING



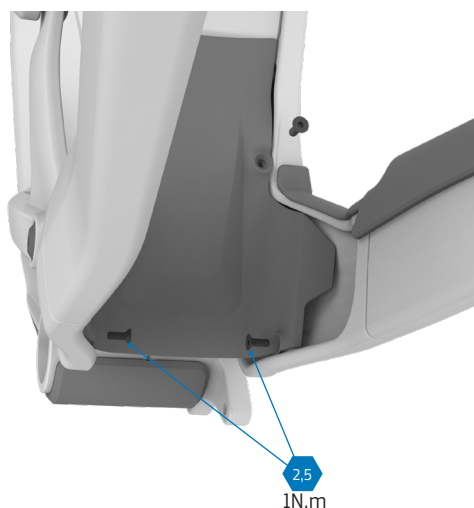
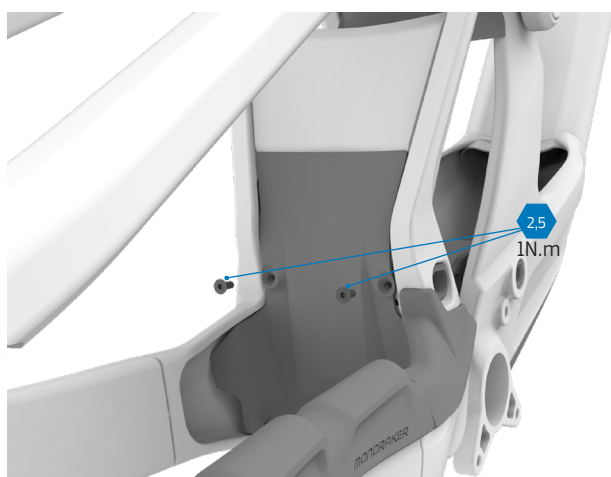
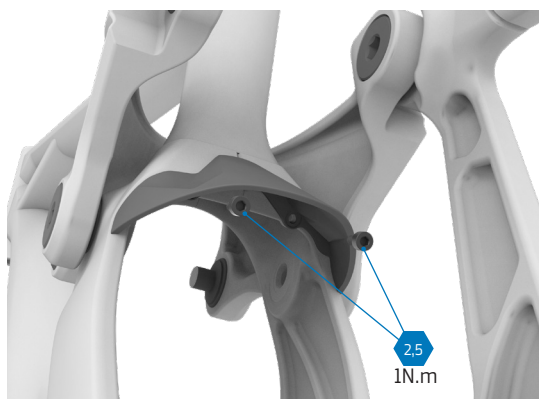
The cable port is secured to the frame with the screw.



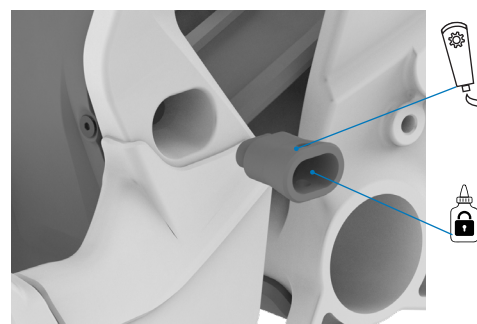
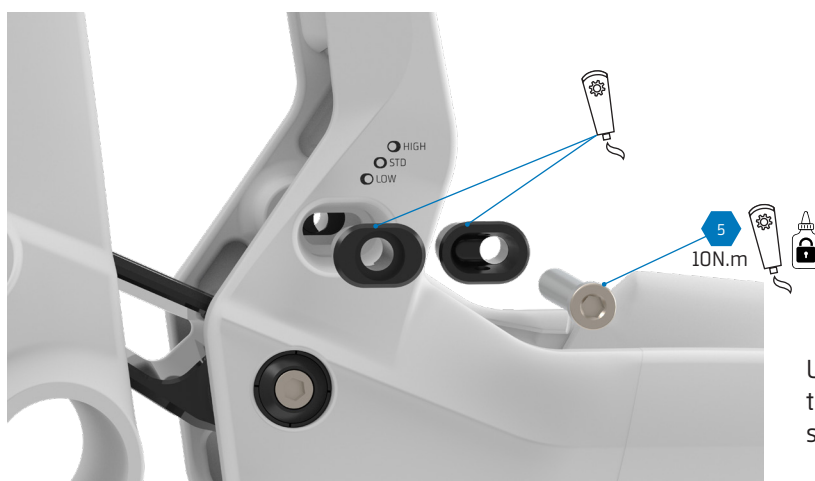
Use the opening to route the cable through the chainstay.



## 10. FENDERS



## 11. SHOCK MOUNT FLIP CHIP



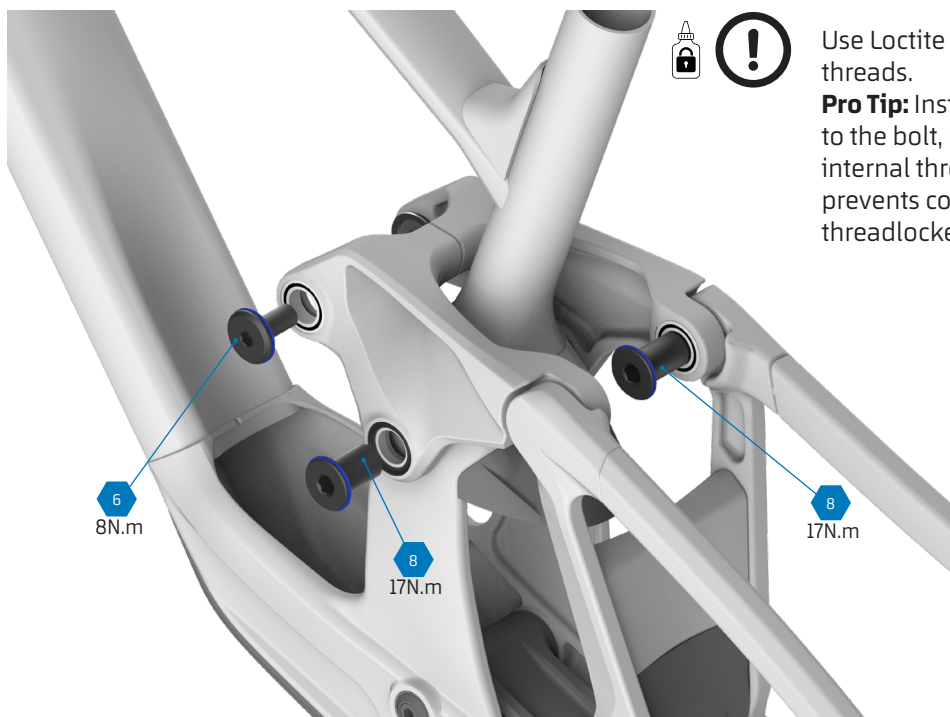
Use Loctite 243 (or similar threadlocker) on the threads, and assembly grease on the outer surfaces of the flip chip.



Visit <https://mondraaker.com/wo/en/frameset-summum-rr-mullet> to configure your custom geometry and get precise data based on the flip chip, dropout, and headset cup positions.

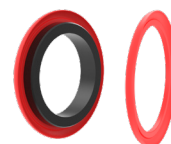
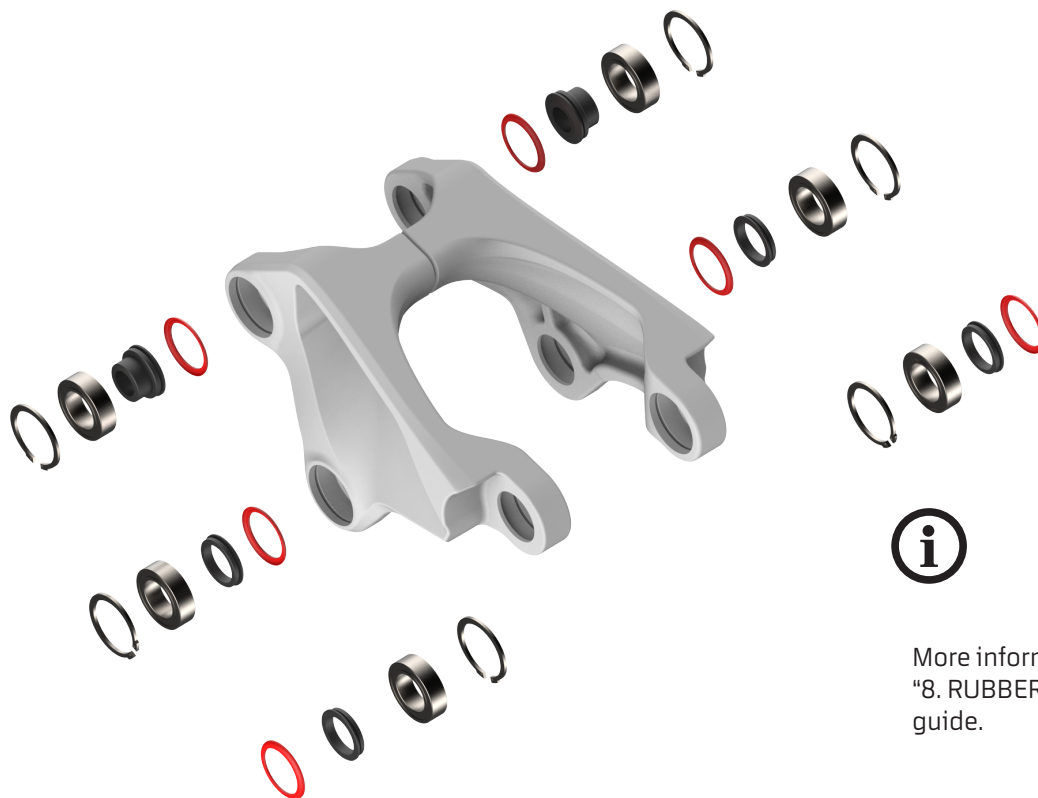
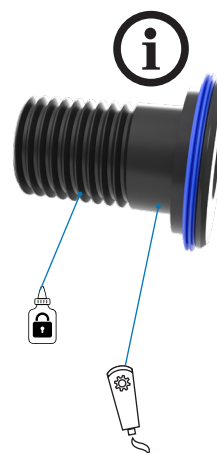


## 11. UPPER LINK



Use Loctite 243 (or similar threadlocker) on the threads.

**Pro Tip:** Instead of applying the threadlocker to the bolt, you can apply it directly to the internal thread of the bicycle frame. This prevents contaminating other components with threadlocker when inserting the bolt.



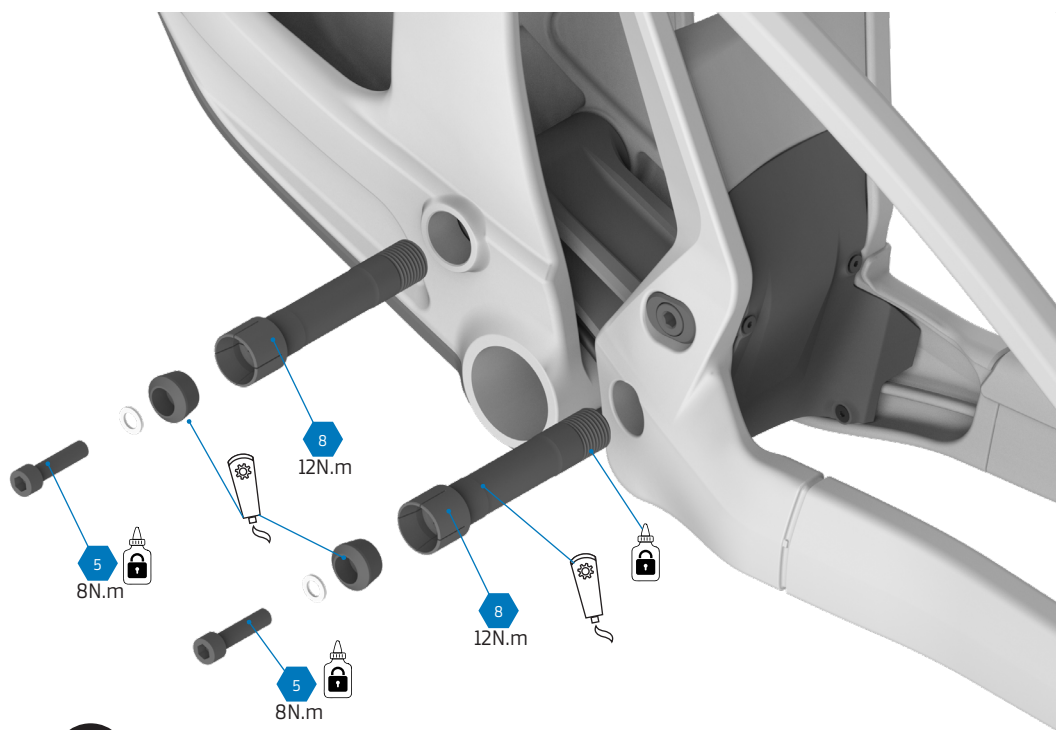
More information: See section "8. RUBBER SEALS" in this guide.



Use assembly grease to assemble the components.

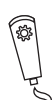


## 12. LOWER LINK



  Use Loctite 243 (or similar threadlocker) on the threads.



  Use assembly grease to assemble the components.

## 13. STEM



+5 mm spacer



+5 mm spacer



M6 X 50 (x2)



M6 X 40 (x2)



M6 X 30 (x2)



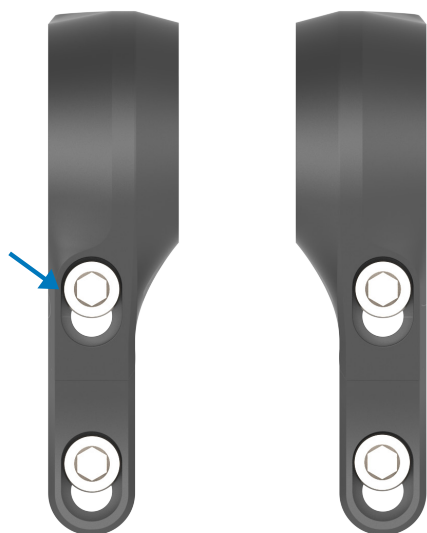
M6 X 20 (x4)



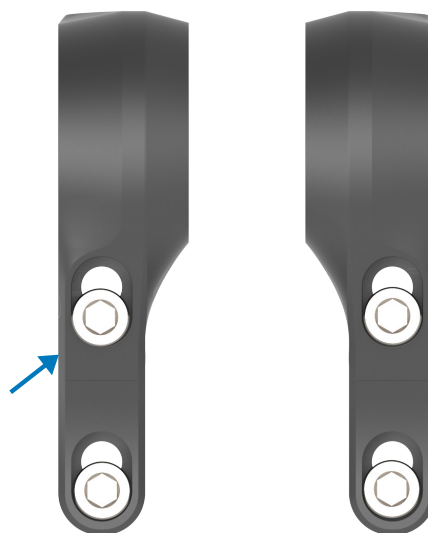
6 N.m

Tighten all bolts to 6 Nm.

### 13. STEM



45 mm stem lenght.



50 mm stem lenght.

### HANDLEBAR ADJUSTMENT



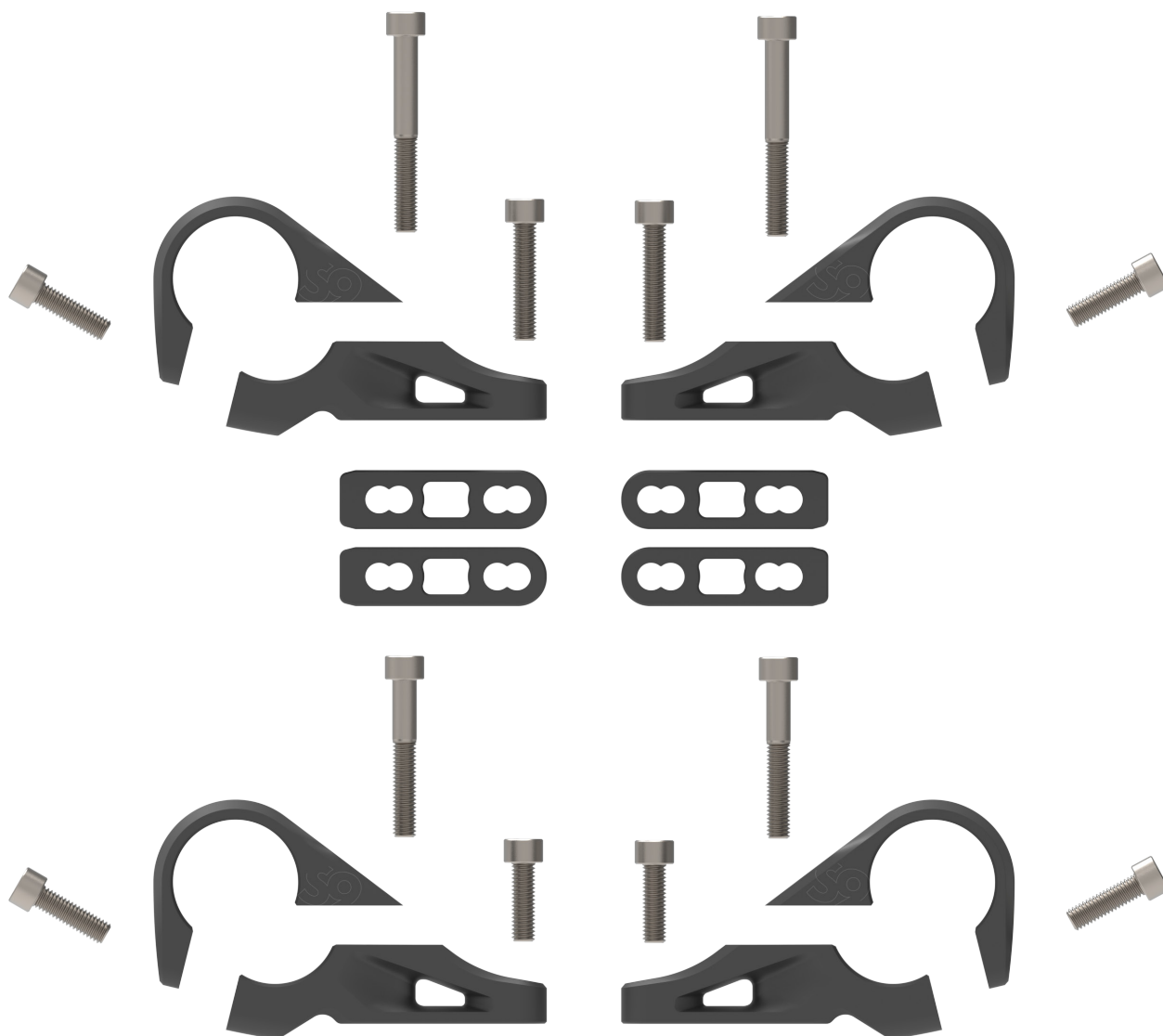
Comfort position.



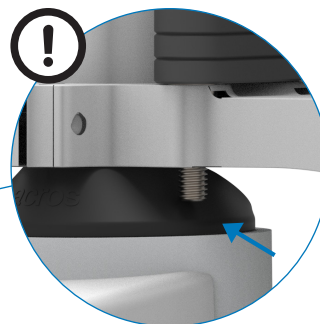
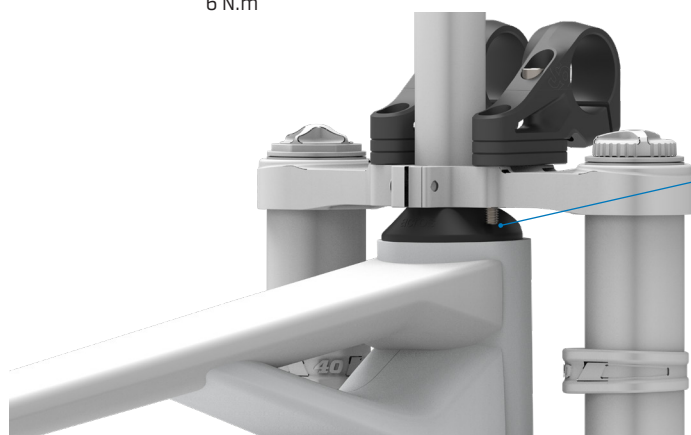
Stable position.



### 13. STEM



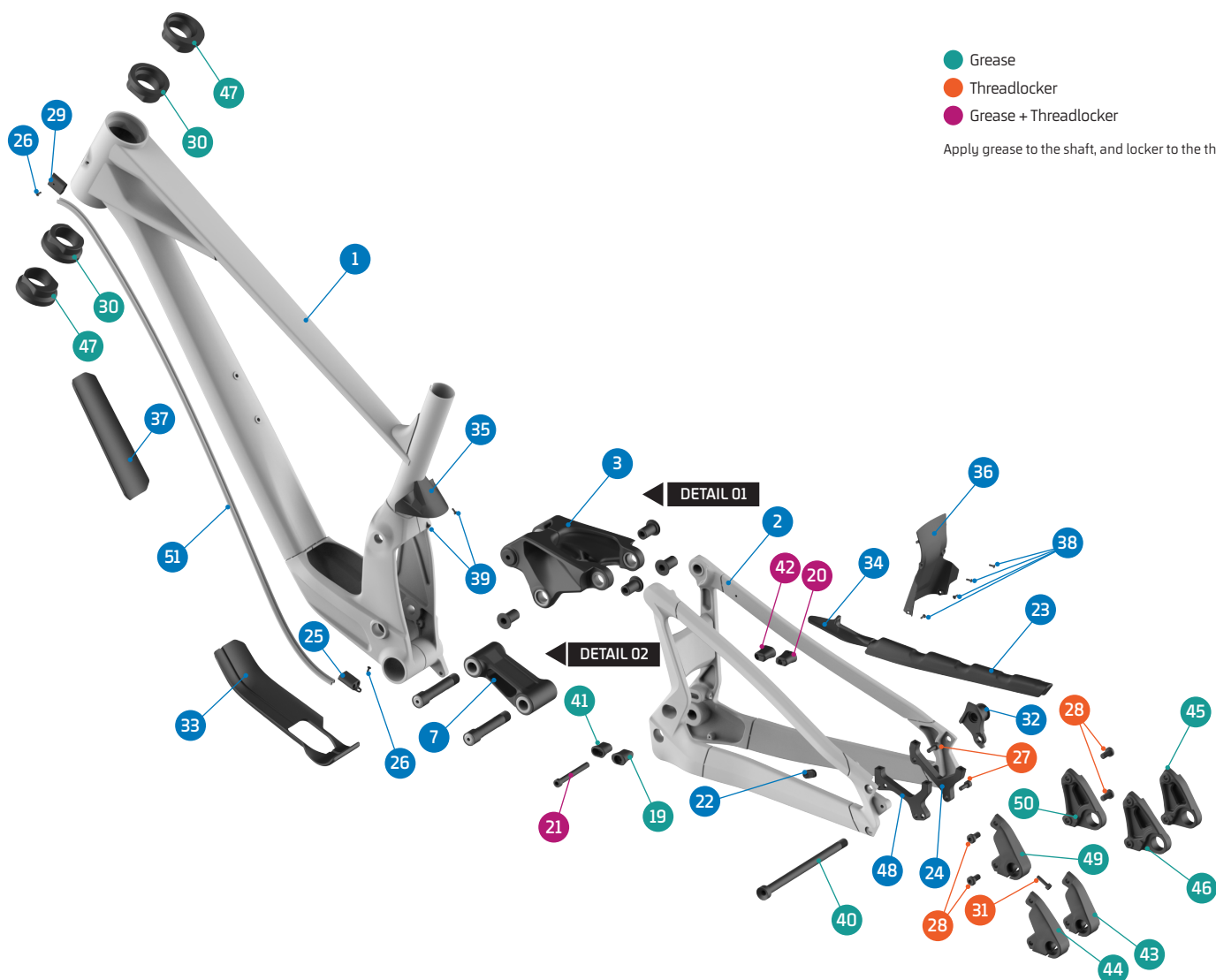
5  
6 N.m



Ensure the bolts are long enough to fully engage the threads.  
Using a bolt that is too long may damage the headset cover.



## 14. SPARE PARTS



- Grease
- Threadlocker
- Grease + Threadlocker

Apply grease to the shaft, and locker to the threads

| ITEM No. | DESCRIPTION                      | QTY. | PART NUMBER                        | TORQUE |
|----------|----------------------------------|------|------------------------------------|--------|
| 1        | FRAME                            | 1    |                                    |        |
| 2        | REAR TRIANGLE                    | 1    |                                    |        |
| 3        | UPPER LINK                       | 1    | Refer to B2B web for color options |        |
| 4        | PIVOT AXLE, M15                  | 4    | SET 3                              | 17Nm   |
| 5        | SHOCK BOLT                       | 2    | SET 2                              | 8Nm    |
| 6        | BEARING, 24x15x7 3802V-2RS       | 10   | SET 1 / 099.00113                  |        |
| 7        | LOWER LINK                       | 1    | 099.26072                          |        |
| 8        | C-RING                           | 6    | SET 2 & 3                          |        |
| 9        | SPACER, 10x17x6                  | 2    | SET 2                              |        |
| 10       | PIVOT SEAL, EXTERNAL             | 10   | SET 2,3,4 & 9                      |        |
| 11       | PIVOT SEAL, INTERNAL             | 6    | SET 2, 3 & 9                       |        |
| 12       | PIVOT WASHER                     | 4    | SET 3                              |        |
| 13       | PIVOT AXLE, 88L                  | 2    | SET 4                              | 12Nm   |
| 14       | SPACER, 38L                      | 2    | SET 4                              |        |
| 15       | WASHER, 6x10x1t                  | 2    | SET 4                              |        |
| 16       | TAPER NUT                        | 2    | SET 4                              |        |
| 17       | SCREW BOLT, M6x25                | 2    | SET 4                              | 8Nm    |
| 18       | SPACER, LOWER                    | 4    | SET 4                              |        |
| 19       | SHOCK FLIPCHIP CENTER            | 1    | 099.26073                          |        |
| 20       | SHOCK FLIPCHIP DRIVE SIDE CENTER | 1    | 099.26074                          |        |
| 21       | SHOCK BOLT, 65L                  | 1    | SET 2 / 099.25038                  | 10Nm   |
| 22       | CABLE RUBBER                     | 1    | 989.13010                          |        |
| 23       | CHAINSTAY PROTECTOR              | 1    | 099.25016                          |        |
| 24       | DISC MOUNT                       | 1    | SET 5                              |        |
| 25       | CABLE GUIDE                      | 1    | 099.22017                          |        |
| 26       | SCREW BOLT, M3x8                 | 2    | 099.20068                          | 1Nm    |

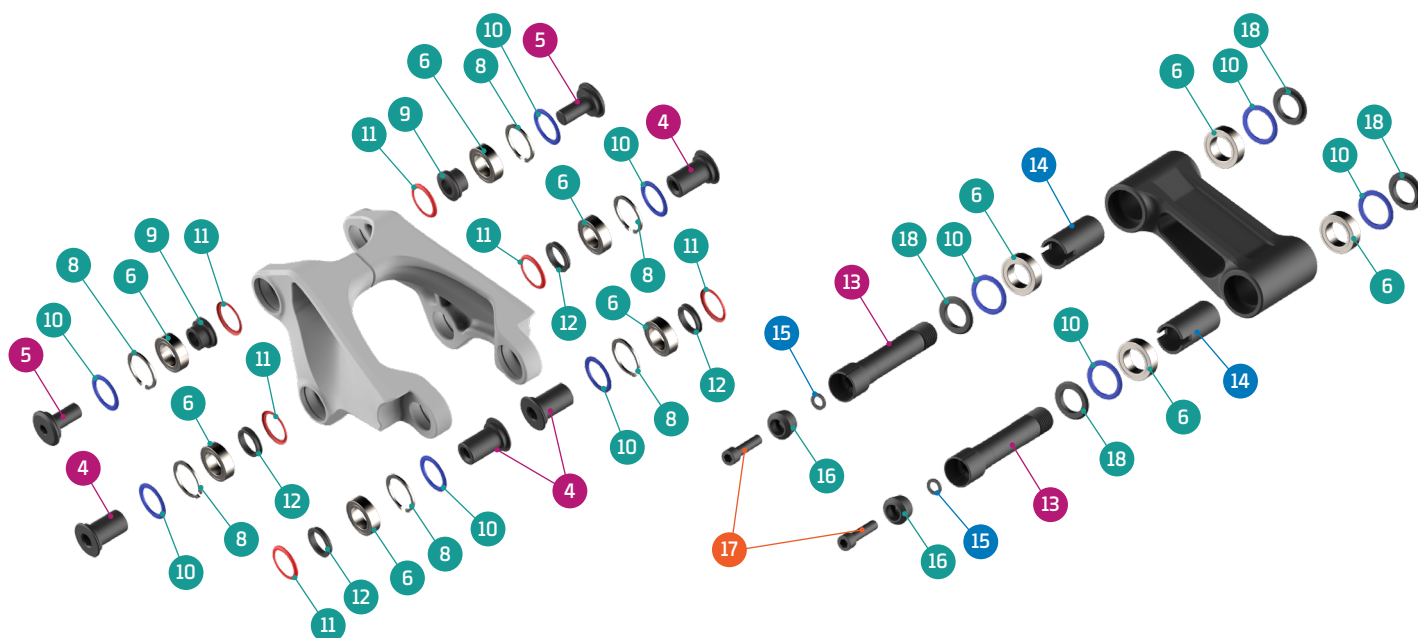
| ITEM No. | DESCRIPTION                        | QTY. | PART NUMBER  | TORQUE |
|----------|------------------------------------|------|--------------|--------|
| 27       | SCREW BOLT, M6x15                  | 2    | SET 5        | 12Nm   |
| 28       | SCREW BOLT, M8x15                  | 4    | 099.26085    | 15Nm   |
| 29       | CABLE GUIDE HEAD SET               | 1    | 099.22018    |        |
| 30       | HEADSET CUP CENTER                 | 2    | 099.26075    |        |
| 31       | SCREW BOLT, M5x18                  | 1    | SET 6, 7 & 8 | 12Nm   |
| 32       | HANGER                             | 1    | SRAM UDH     |        |
| 33       | BOTTOM BRACKET PROTECTOR           | 1    | 099.26076    |        |
| 34       | YOKE PROTECTOR                     | 1    | 099.26077    |        |
| 35       | FT SHOCK FENDER                    | 1    | 099.26078    |        |
| 36       | RT SHOCK FENDER                    | 1    | 099.26079    |        |
| 37       | DOWN TUBE PROTECTOR                | 1    | 099.26080    |        |
| 38       | SCREW BOLT, M3x8                   | 4    | 099.20068    | 2Nm    |
| 39       | SCREW BOLT, M3x6                   | 2    | 099.12116    | 2Nm    |
| 40       | SUMMUM 26 WHEEL AXLE               | 1    | 099.26081    | 12Nm   |
| 41       | SHOCK FLIPCHIP HIGH/LOW            | 1    | 099.26082    |        |
| 42       | SHOCK FLIPCHIP DRIVE SIDE HIGH/LOW | 1    | 099.26083    |        |
| 43       | DROPOUT -5                         | 1    | SET 7        |        |
| 44       | DROPOUT +5                         | 1    | SET 8        |        |
| 45       | DROPOUT -5 DRIVE SIDE              | 1    | SET 7        |        |
| 46       | DROPOUT +5 DRIVE SIDE              | 1    | SET 8        |        |
| 47       | HEADSET CUP +/- 5                  | 2    | 099.26084    |        |
| 48       | DISC MOUNT +/- 5                   | 1    | 099.26086    |        |
| 49       | DROPOUT STANDARD                   | 1    | SET 6        |        |
| 50       | DROPOUT STANDARD DRIVE SIDE        | 1    | SET 6        |        |
| 51       | INTERNAL CABLE GUIDE               | 1    | 099.21010P   |        |

## 14. SPARE PARTS

EN

DETAIL 01

DETAIL 02



SET 6

NEUTRAL DROPOUTS KIT



SET 7

MINUS 5 DROPOUTS KIT



SET 8

PLUS 5 DROPOUTS KIT



SET 9

SEALS KIT



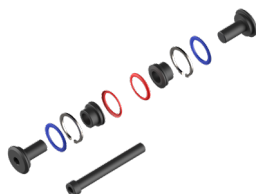
SET 1

ZERO BEARING KIT 25



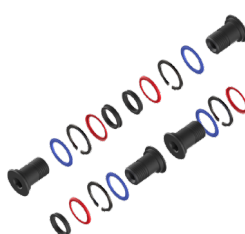
SET 2

SHOCK HARDWARE KIT 24



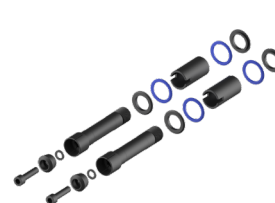
SET 3

UPPER LINK KIT 34



SET 4

LOWER LINK KIT 39



SET 5

DISC ADAPTOR KIT



| PART NUMBER | DESCRIPTION                  | COMPONENTS                                                                                                                                      |
|-------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 099.22100   | SET 1: ZERO BEARING KIT 25   | BEARING 3802-2RS, 24x15x7 (x10)                                                                                                                 |
| 099.26202   | SET 2: SHOCK HARDWARE KIT 24 | PIVOT SEAL INTERNAL (x2) / PIVOT SEAL EXTERNAL (x2) / C-RING (x2) / SPACER, 10x17x6 (x2) / SHOCK BOLT (x2) / SHOCK BOLT, 65 (x1)                |
| 099.26300   | SET 3: UPPER LINK KIT 34     | PIVOT WASHER (x4) / PIVOT SEAL INTERNAL (x4) / PIVOT SEAL EXTERNAL (x4) / PIVOT AXLE, M15 (x4) / C-RING (x4)                                    |
| 099.26401   | SET 4: LOWER LINK KIT 39     | PIVOT SEAL EXTERNAL (x4) / PIVOT AXLE 88L, (x2) / SCPACER, 38 (x2) / WASHER (x2) / TAPER NUT (x2) / SCREW BOLT, M6x25 (x2) / SCPACER LOWER (x4) |
| 099.25018   | SET 5: DISC ADAPTOR KIT      | DISC ADAPTOR (x1) / SCREW BOLT (x2)                                                                                                             |
| 099.26087   | SET 6: NEUTRAL DROPOUTS KIT  | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT STANDARD (x1) / DROPOUT STANDARD DRIVE SIDE (x1)                                                      |
| 099.26088   | SET 7: MINUS 5 DROPOUTS KIT  | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT -5 (x1) / DROPOUT -5 DRIVE SIDE (x1)                                                                  |
| 099.26089   | SET 8: PLUS 5 DROPOUTS KIT   | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT +5 (x1) / DROPOUT +5 DRIVE SIDE (x1)                                                                  |
| 099.26062   | SET 9: SEALS KIT             | PIVOT SEAL INTERNAL (x8) / PIVOT SEAL EXTERNAL (x10)                                                                                            |



## 15. KINEMATICS

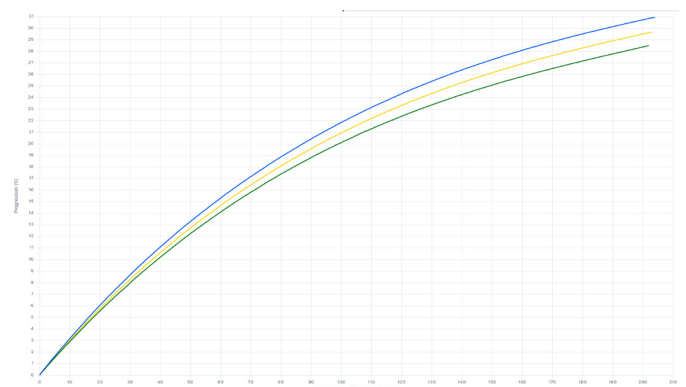
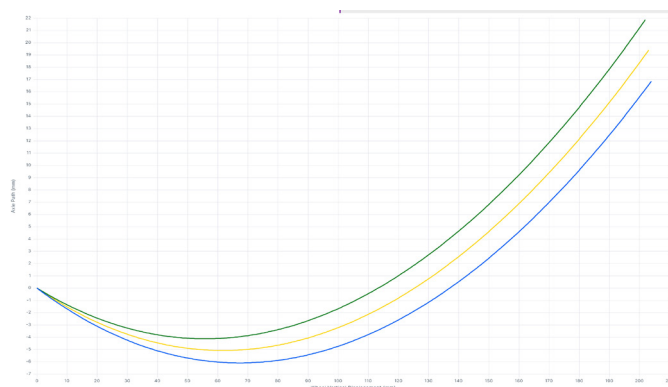
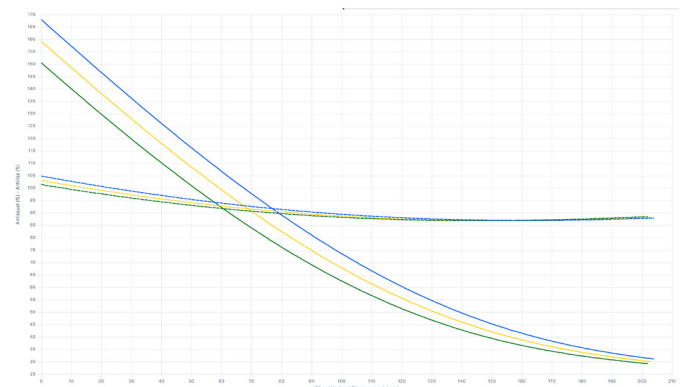
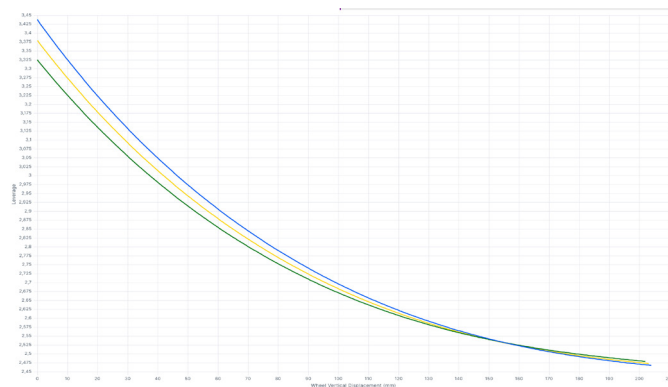
Kinematics of the new Summum, as well as geometry, are based in big part on the development done by MFR in the Summum prototype during the season, always keeping in mind that the range of users will be much bigger. We have selected from the range of adjustments of the Summum prototype what we think will suit more rider profiles.

From the original Summum prototype, we have made some changes to have lower leverage ratio in the first 50% of stroke looking for good support, and from that point we increased the ratio to reduce progression and use all the stroke.

We have designed a flip chip in the shock lower mount that changes mainly geometry but also the starting point of the leverage ratio and progression by 1.5%. It's a small modification but can be interesting to adapt the bike to different likings, terrains or shocks.

Here you will find the usual information and then the "std" setting compared with the different flip chip settings. Yellow = "std", green = -3.5 (low position) and blue = +3.5 (high position).

Recommended springs for the rear shock: M 450 lb/in, L 500 lb/in and XL 550 lb/in





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ANLEITUNGEN UND DOKUMENTE



DE



**SUMMUM**



## SICHERHEITS- UND ALLGEMEINE HINWEISE

Bitte beachten Sie, dass in diesem technischen Leitfaden die folgenden drei Symbole erscheinen können. Sie weisen jeweils auf die folgenden Vorsichtsmaßnahmen hin:

### **WARNUNG:**

Die Nichtbeachtung dieser Hinweise oder die Durchführung unsicherer Praktiken kann zu schweren Verletzungen oder sogar zum Tod führen. Die Arbeiten sind technisch anspruchsvoll und können bei fehlerhafter Ausführung zu Schäden am Fahrrad oder zum Erlöschen der Garantie führen.

### **VORSICHT:**

Die Nichtbeachtung dieser Hinweise oder die Durchführung unsicherer Praktiken kann zu leichten Verletzungen führen. Die Arbeiten sind technisch anspruchsvoll und können bei fehlerhafter Ausführung zu Schäden am Fahrrad oder zum Erlöschen der Garantie führen.

### **INFORMATION**

Informationen, die für eine ordnungsgemäße Ausführung der Arbeit wichtig sind und daher mögliche Schäden an Ihrem Fahrrad oder den Verlust der Garantie verhindern. Hier besteht jedoch kein Risiko für Personen.

## WICHTIGE HINWEISE

- Die Verwendung von nicht originalen Ersatzteilen kann zu Schäden, Fehlfunktionen und Unfällen mit schweren Folgen führen.
- Bitte beachten Sie, dass für einige der in diesem Handbuch beschriebenen Arbeitsschritte Kenntnisse erforderlich sind, die über die Kompetenz eines durchschnittlichen Fahrradfahrers hinausgehen. Falls Sie nicht qualifiziert sind, diese Schritte auszuführen, bringen Sie Ihr Fahrrad zur Wartung und zum Austauschen von Bauteilen zu einem von Mondraker autorisierten technischen Kundendienst. Der falsche Einbau von Ersatzteilen kann zu Fehlfunktionen, Unfällen, Verletzungen und zum Erlöschen der Garantie führen.

## REINIGUNG UND PFLEGE

- Nach einem Ausbau der Teile wird empfohlen, die wiederzuverwendenden Komponenten zu reinigen, zu fetten und (falls erforderlich) mit Schraubensicherung zu versehen.

## SYMBOL-LEGENDE



Mittelfeste Schraubensicherung. Loctite 243 oder ähnlicher Art.



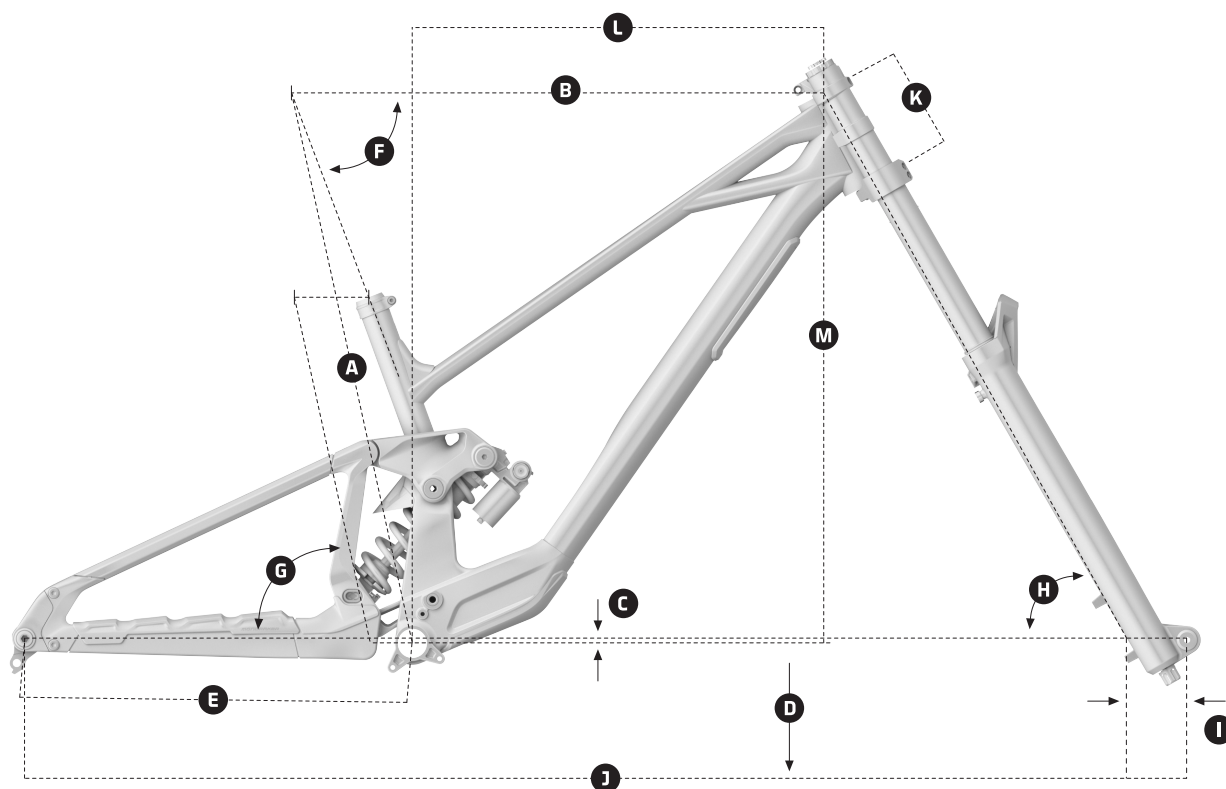
Synthetische Montagepaste.



Spezielle Carbon Montagepaste.



## 1. GEOMETRIE



### SUMMUM

|   | RAHMENHÖHE            | M [STD]   | L [STD]   | XL [STD]  |
|---|-----------------------|-----------|-----------|-----------|
| A | Sitzrohlänge          | 400 mm    | 400 mm    | 400 mm    |
| B | Oberrohrlänge         | 710 mm    | 740 mm    | 770 mm    |
| C | Innenlagerabsenkung   | -5 mm     | -5 mm     | -5 mm     |
| D | Innenlagerhöhe        | 350 mm    | 350 mm    | 350 mm    |
| E | Kettenstrebenlänge    | 455 mm    | 455 mm    | 455 mm    |
| F | Sitzwinkel            | 78°       | 78°       | 78°       |
| G | Sitzwinkel (effektiv) | 70°       | 70°       | 70°       |
| H | Lenkwinkel            | 62,5°     | 62,5°     | 62,5°     |
| I | Gabel Offset          | 52 mm     | 52 mm     | 52 mm     |
| J | Radstand              | 1285,4 mm | 1315,4 mm | 1345,4 mm |
| K | Steuerrohrlänge       | 120 mm    | 120 mm    | 120 mm    |
| L | Reach                 | 450 mm    | 480 mm    | 510 mm    |
| M | Stack                 | 642,6 mm  | 642,6 mm  | 642,6 mm  |

**REACH-VERSTELLUNG ÜBER STEUERSATZSCHALEN** +/-5mm · **KETTENSTREBENLÄNGEN-VERSTELLUNG** +/-5mm · **DÄMPFER FLIP-CHIP VERSTELLUNG** +/-5mm Tretlagerhöhe, 0,35° Winkel



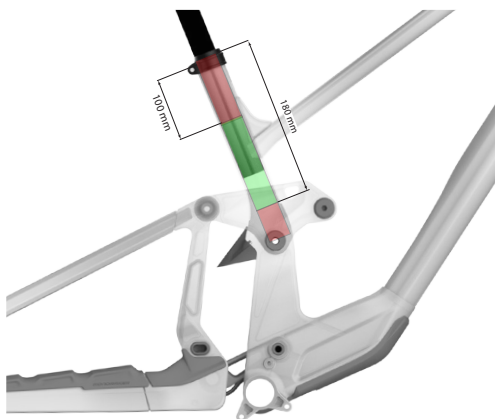
Besuchen Sie <https://mondraker.com/wo/de/frameset-summum-rr-mullet>, um Ihre individuelle Geometrie zu konfigurieren und präzise Daten basierend auf der Position von Flip-Chip, Ausfallenden und Steuersatzschalen zu erhalten.



## 2. RAHMENSPEZIFIKATIONEN

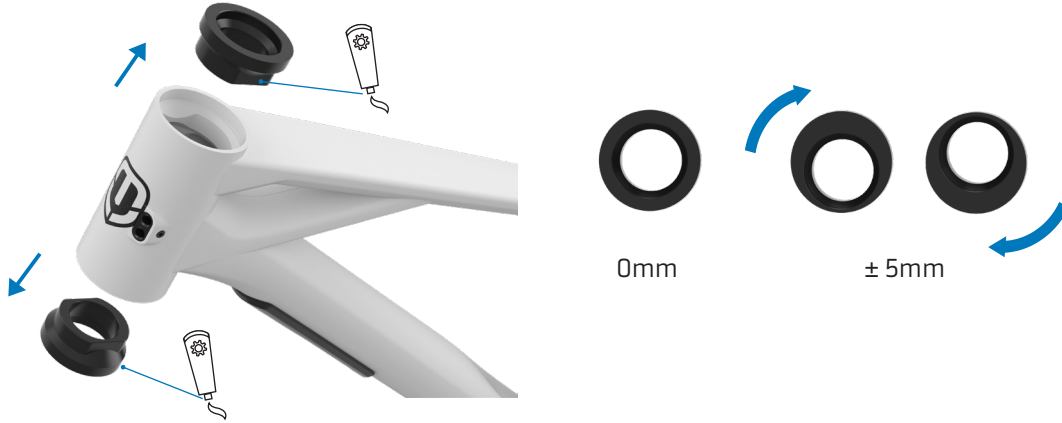
|                                        |                                                               |
|----------------------------------------|---------------------------------------------------------------|
| <b>RAHMENGRÖSSEN</b>                   | M / L / XL                                                    |
| <b>VORDERRADGRÖSSE</b>                 | 29"                                                           |
| <b>NABE VORN</b>                       | 110mm x 20mm (BOOST)                                          |
| <b>HINTERRADGRÖSSE</b>                 | 27,5"                                                         |
| <b>NABE HINTEN</b>                     | 157mm x 12mm (DH)                                             |
| <b>HINTERACHSE</b>                     | 12X157 P1.0 L183 (head 19mm OD)                               |
| <b>ANZAHL WASSERFLASCHEN</b>           | 1                                                             |
| <b>INNENLAGER</b>                      | BSA 83mm                                                      |
| <b>FEDERWEG</b>                        | 200mm                                                         |
| <b>SCHOCKABSORBER</b>                  | 225 x 75mm TRUNNION, 30 x 8mm                                 |
| <b>FEDERGABEL</b>                      | 200mm                                                         |
| <b>DURCHMESSER SATTELSTÜTZE</b>        | 31.6mm / 34.9mm                                               |
| <b>KETTENLINIE</b>                     | 57mm                                                          |
| <b>STEUERSTAZ</b>                      | Onoff DH ARS (Adjustable Reach System) 1-1/8", 1-1/8"         |
| <b>KETTENBLATT MAX</b>                 | 36T                                                           |
| <b>BREMSE HINTEN</b>                   | POST MOUNT CUSTOM ADAPTER, DIRECT 200 (220mm max with spacer) |
| <b>MAXIMAL KOMPATIBLE REIFENGROSSE</b> | 27'5x2.6                                                      |

## 3. EINSTECKTIEFE DER SATTELSTÜTZE



| RAHMENGRÖSSE | MIN. (mm) | MAX. (mm) |
|--------------|-----------|-----------|
| <b>XL</b>    | 100       | 175       |
| <b>L</b>     | 100       | 175       |
| <b>M</b>     | 100       | 175       |

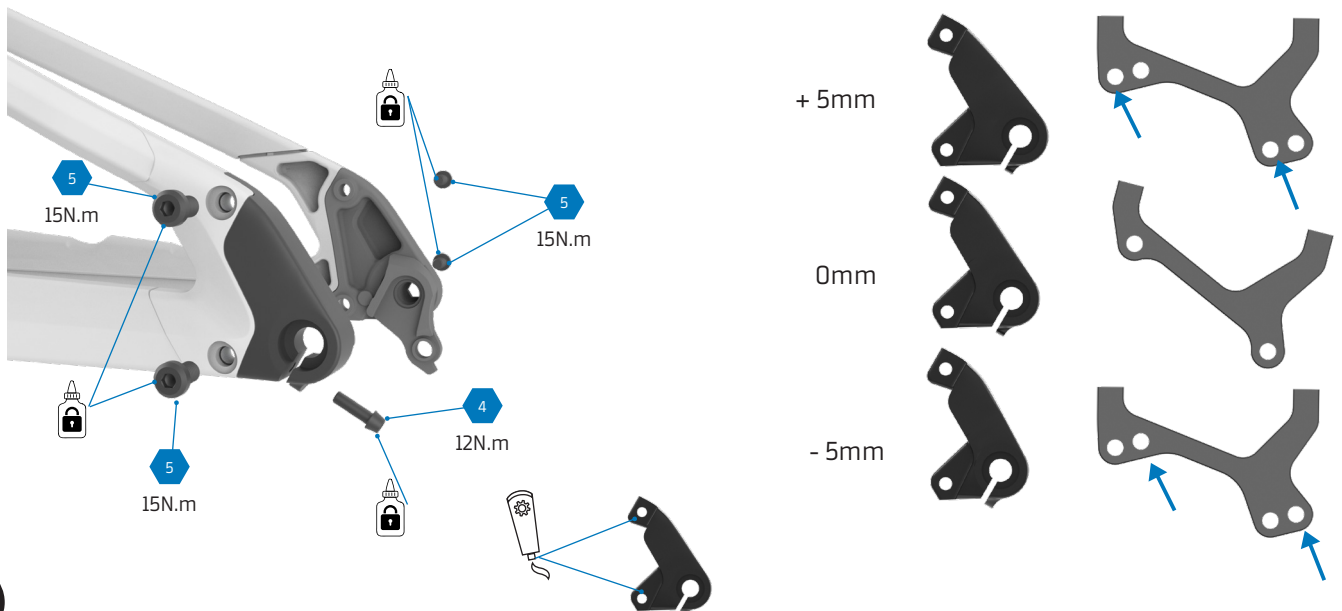
## 4. STEUERSATZSCHALEN



Die obere und untere Steuersatzschale müssen immer mit der gleichen Ausrichtung ihrer Exzentrizität installiert werden. Die Verwendung dieser Schalen ermöglicht es, die Reach-Länge zu verändern.

Um den Lenkwinkel anzupassen, muss das Flip-Chip-System des Rahmens verwendet werden. Denken Sie daran, vor der Montage eine dünne Schicht Montagefett auf die Kontaktflächen aufzutragen.

## 5. AUSFALLENDEN

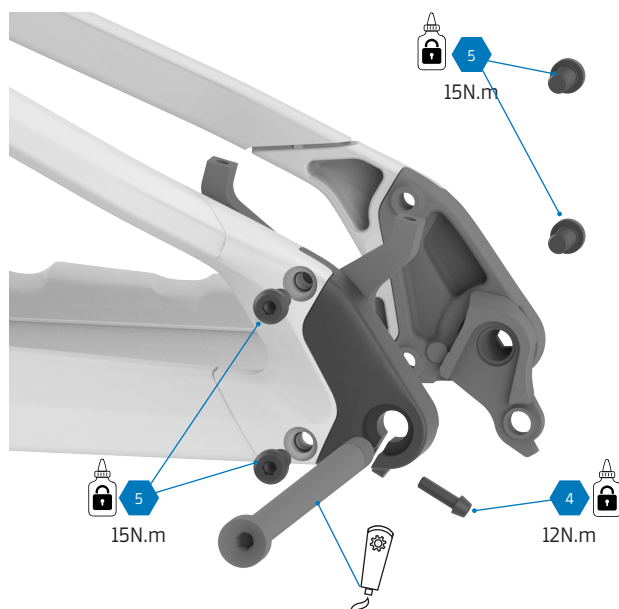


Das Fahrrad wird serienmäßig mit Standard-Ausfallenden geliefert. Wenn Sie größere oder kleinere Ausfallenden montieren, **muss zwingend auch der Bremsadapter (die Bremssattelaufnahme) ausgetauscht werden**. Der Standard-Adapter ist nur mit den serienmäßigen Ausfallenden kompatibel.



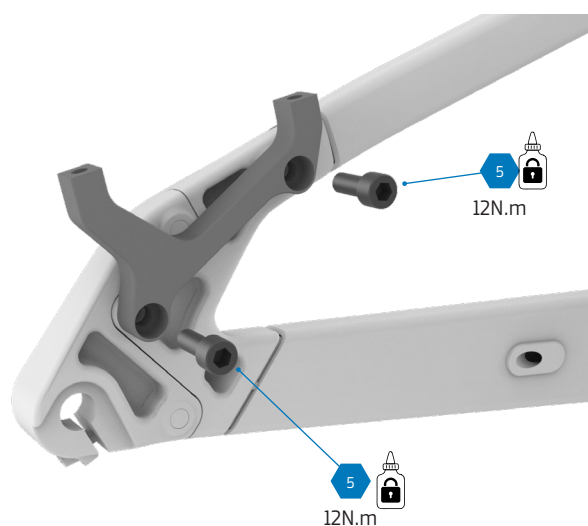
Besuchen Sie <https://mondraker.com/wo/de/frameset-summum-rr-mullet>, um Ihre individuelle Geometrie zu konfigurieren und präzise Daten basierend auf der Position von Flip-Chip, Ausfallenden und Steuersatzschalen zu erhalten.

## 6. HINTERRADACHSE EINSETZEN



1. Die Schrauben der Ausfallenden leicht lösen (ca. 3/4 Umdrehung) und die Klemmschraube lösen.
2. Die Achse einsetzen und mit dem angegebenen Drehmoment anziehen.
3. Die Schrauben der Ausfallenden mit dem angegebenen Drehmoment anziehen.
4. Die Klemmschraube mit dem angegebenen Drehmoment anziehen.

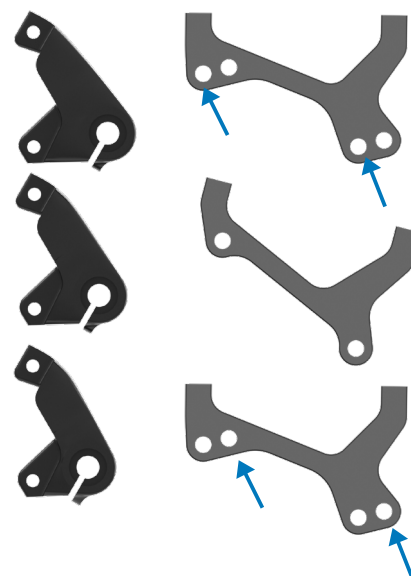
## 7. BREMSADAPTER



+ 5mm

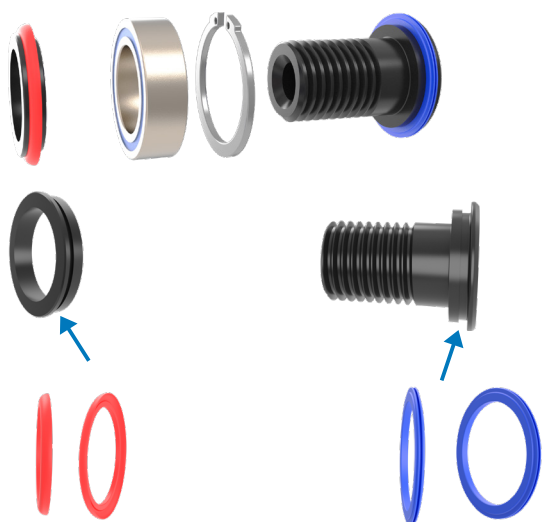
0mm

- 5mm



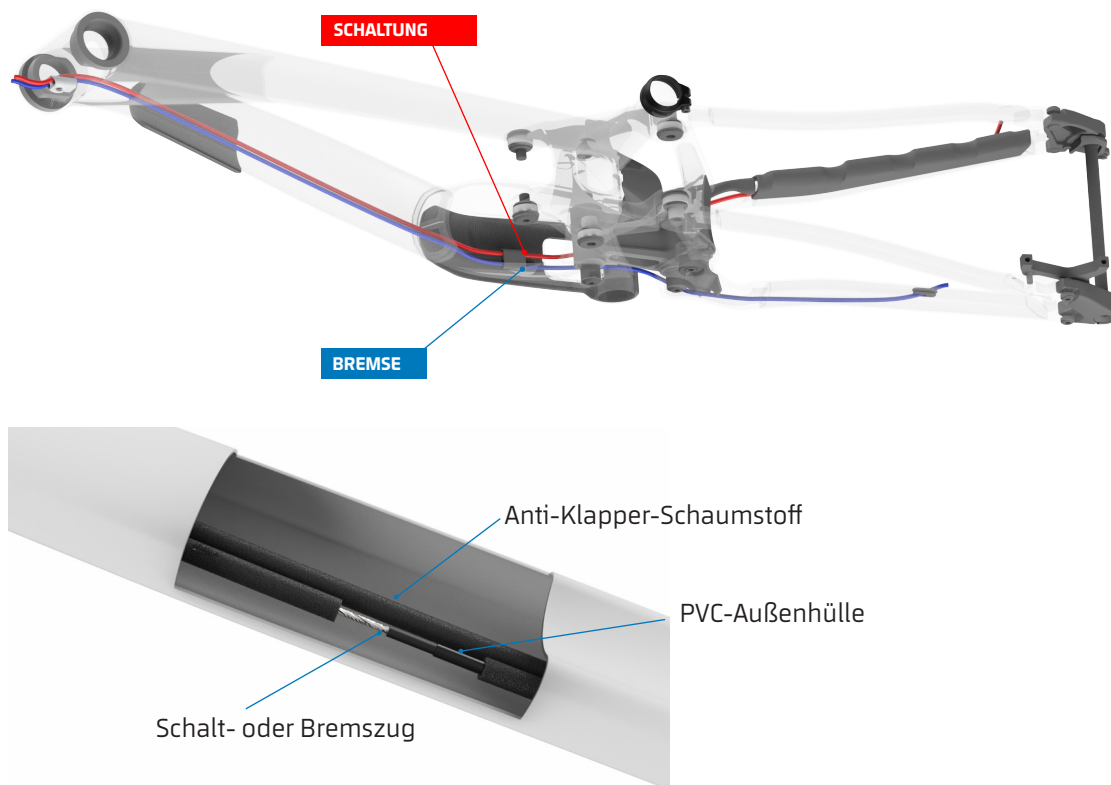
Besuchen Sie <https://mondraker.com/wo/de/frameset-summum-rr-mullet>, um Ihre individuelle Geometrie zu konfigurieren und präzise Daten basierend auf der Position von Flip-Chip, Ausfallenden und Steuersatzschalen zu erhalten.

## 8. GUMMIDICHTUNGEN

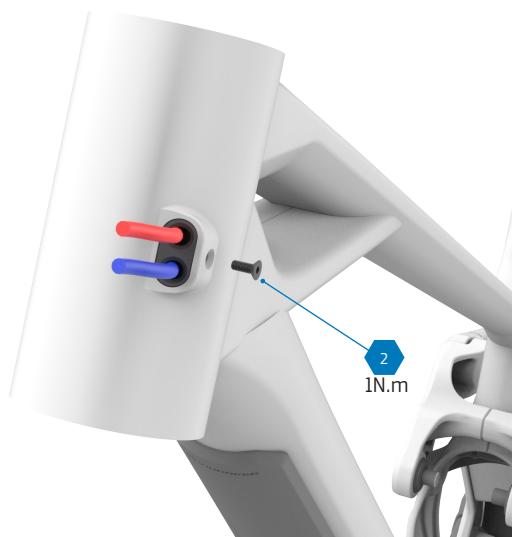


Achten Sie auf die Position und Form der Gummidichtungen. Zur besseren Unterscheidung wurden die Farben Rot und Blau verwendet, in der Realität sind die Gummidichtungen jedoch schwarz.

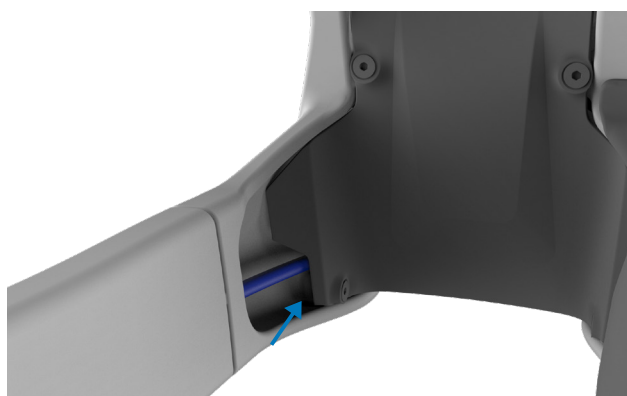
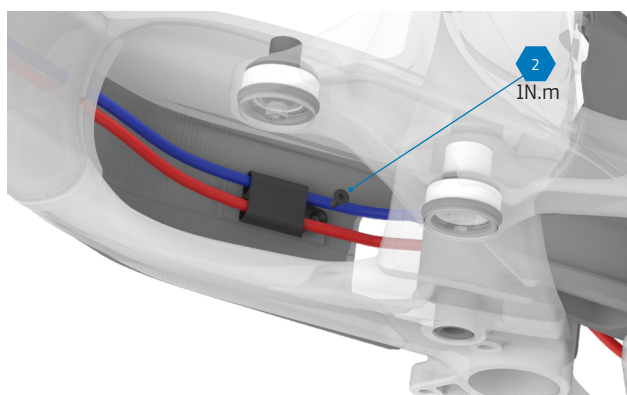
## 9. INTERNE ZUGVERLEGUNG



## 9. INTERNE ZUGVERLEGUNG



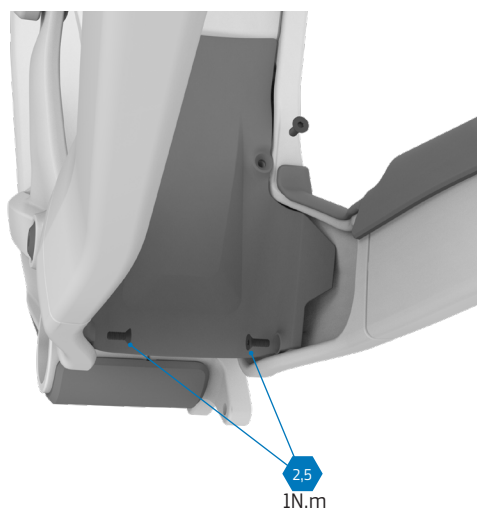
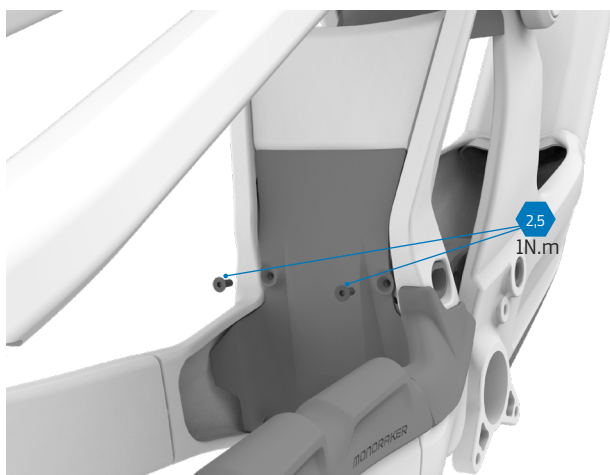
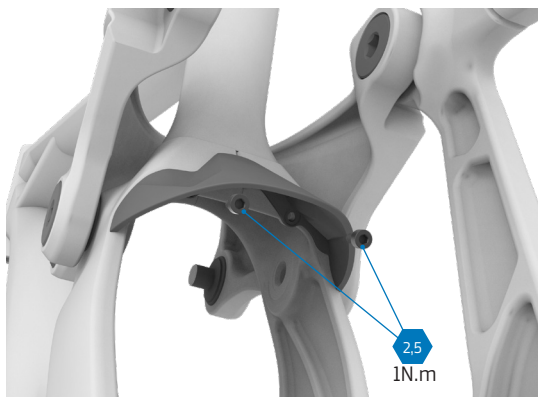
Die Kabeldurchführung wird mit der Schraube am Rahmen befestigt.



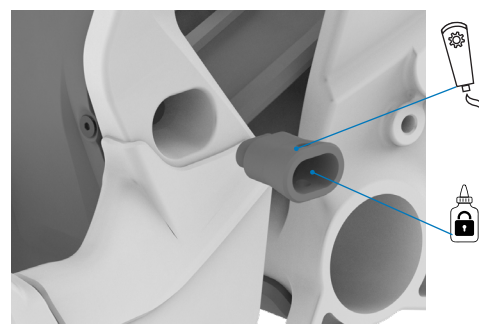
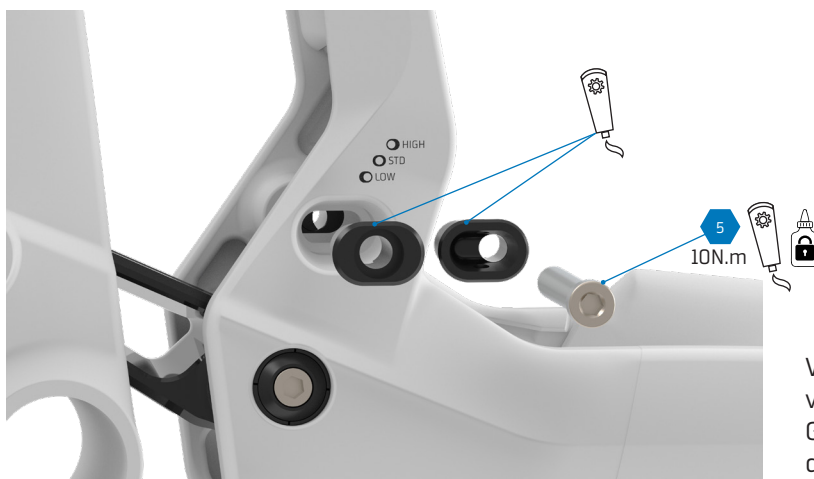
Nutzen Sie die Öffnung, um den Zug durch die Kettenstrebe zu führen.



## 10. FENDERS



## 11. FLIP-CHIP DER DÄMPFERBEFESTIGUNG

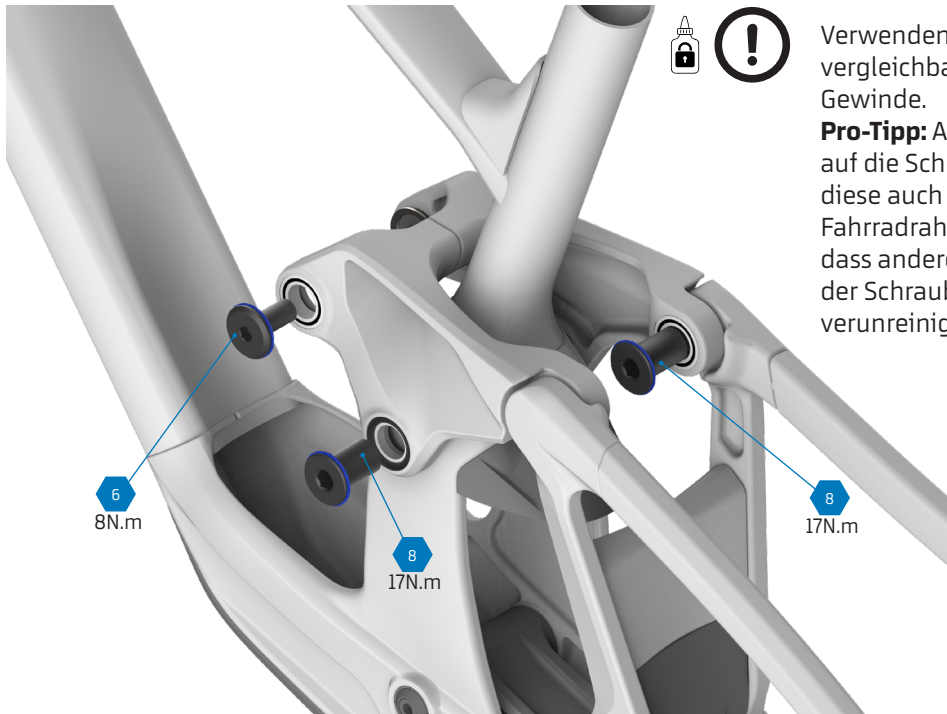


Verwenden Sie Loctite 243 (oder eine vergleichbare Schraubensicherung) für das Gewinde und Montagefett für die Außenflächen des Flip-Chips.



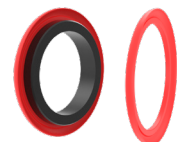
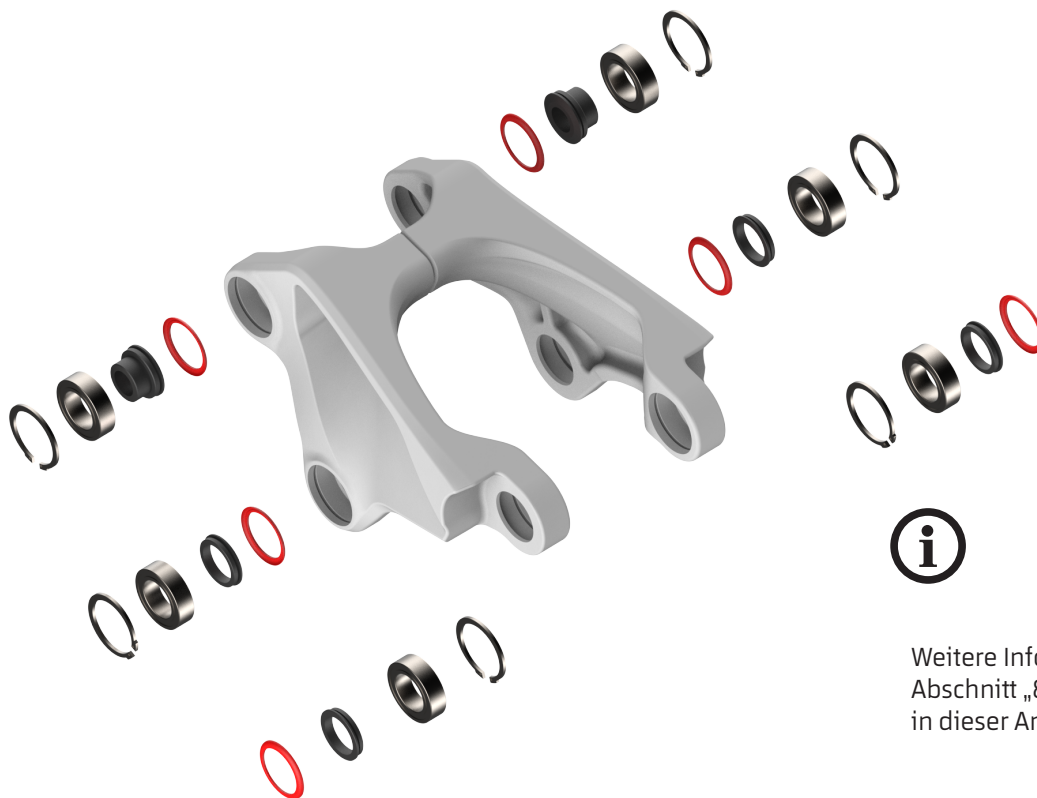
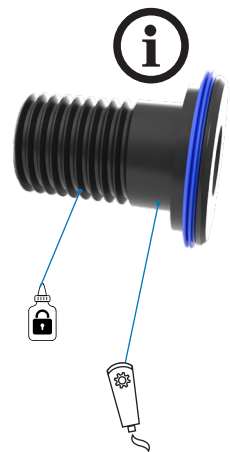
Besuchen Sie <https://mondraker.com/wo/de/frameset-summum-rr-mullet>, um Ihre individuelle Geometrie zu konfigurieren und präzise Daten basierend auf der Position von Flip-Chip, Ausfallenden und Steuersatzschalen zu erhalten.

## 11. OBERER UMLENKHEBEL



Verwenden Sie Loctite 243 (oder eine vergleichbare Schraubensicherung) für das Gewinde.

**Pro-Tipp:** Anstatt die Schraubensicherung auf die Schraube aufzutragen, können Sie diese auch direkt in das Innengewinde des Fahrradrahmens geben. So vermeiden Sie, dass andere Komponenten beim Einsetzen der Schraube mit der Schraubensicherung verunreinigt werden.



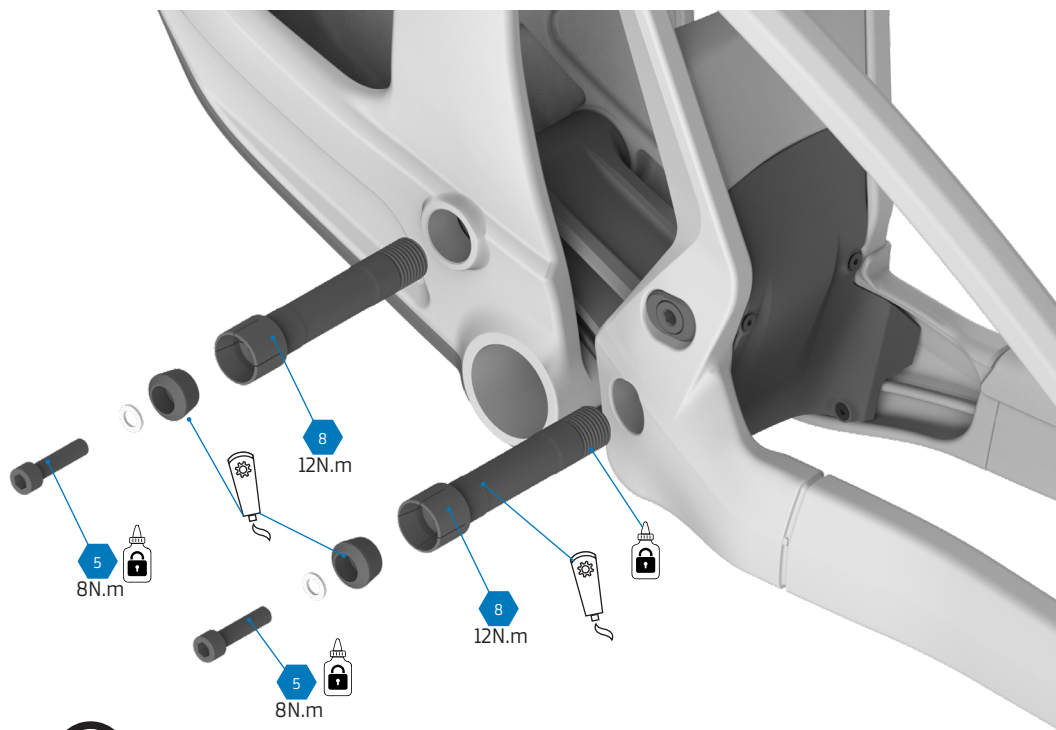
Weitere Informationen: Siehe Abschnitt „8. GUMMIDICHTUNGEN“ in dieser Anleitung.



Verwenden Sie Montagefett für den Zusammenbau der Komponenten.



## 12. UNTERER UMLENKHEBE



Verwenden Sie Loctite 243 (oder eine vergleichbare Schraubensicherung) für das Gewinde.



Verwenden Sie Montagefett für den Zusammenbau der Komponenten.

## 13. VORBAU



+5 mm Distanzplatte



+5 mm Distanzplatte



M6 X 50 (x2)



M6 X 40 (x2)



M6 X 30 (x2)



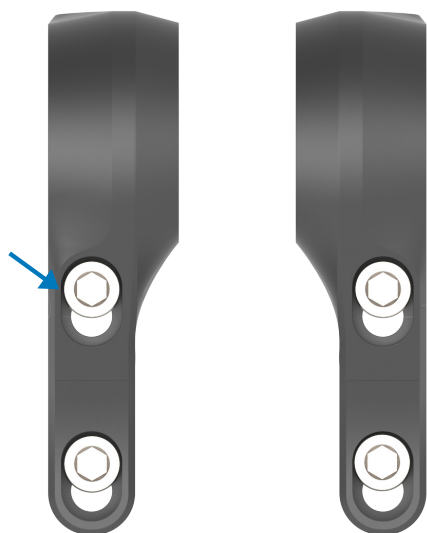
M6 X 20 (x4)



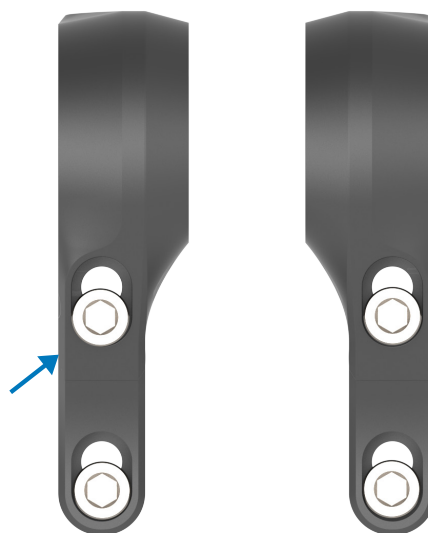
Alle Schrauben mit 6 Nm anziehen.



### 13. VORBAU



45 mm Vorbau.



50 mm Vorbau.

### LENKEREINSTELLUNG



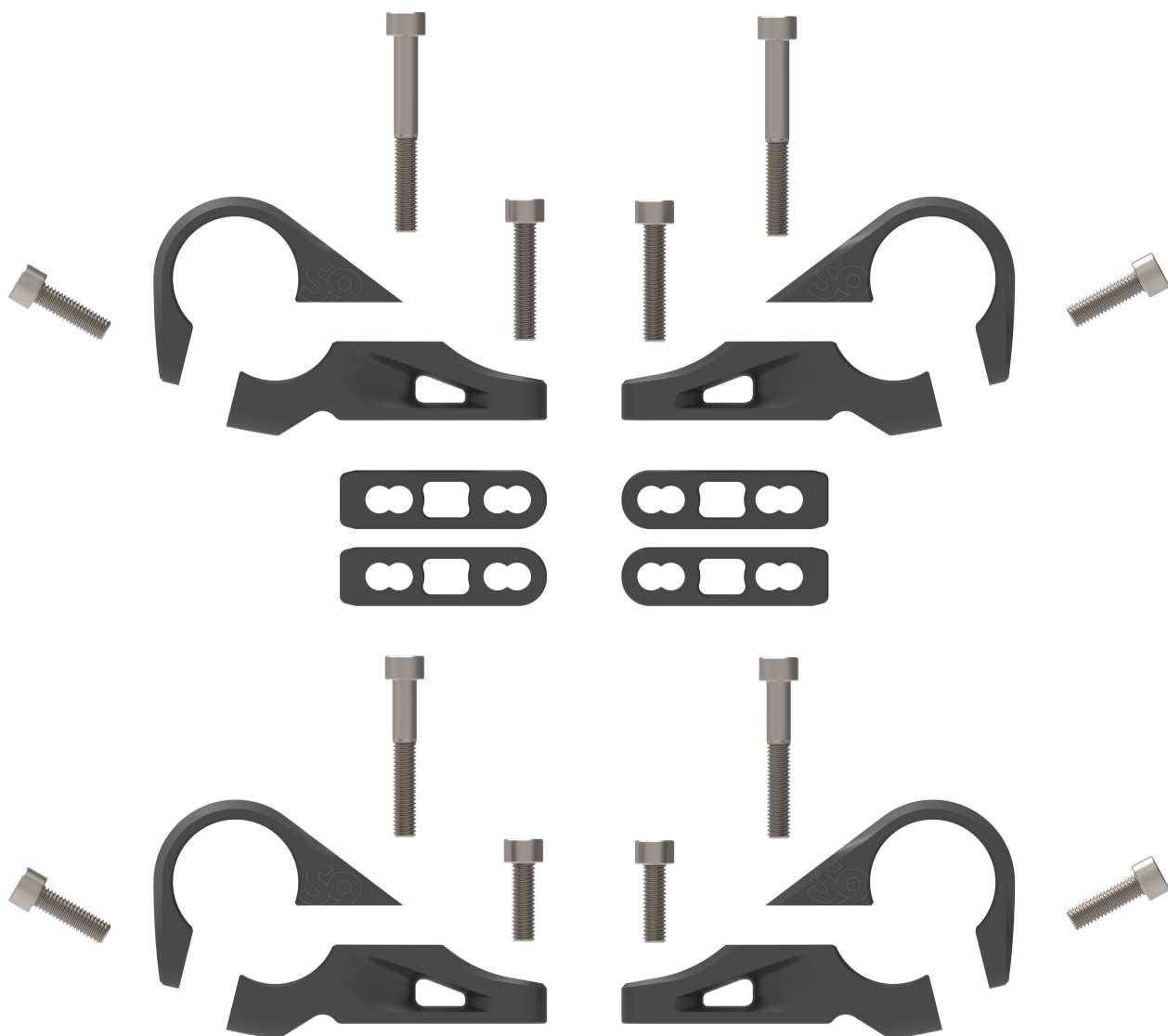
Bequeme Position.



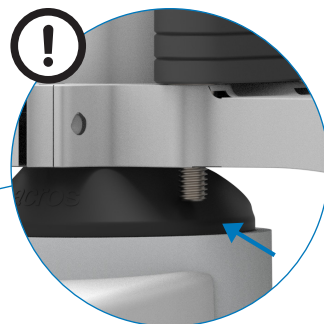
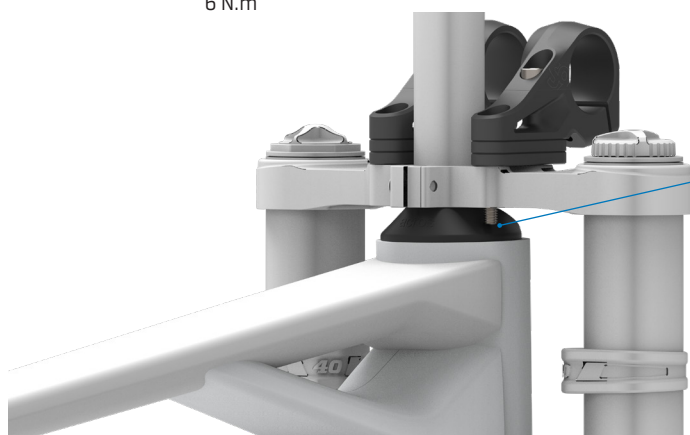
Stabile Position.



### 13. VORBAU



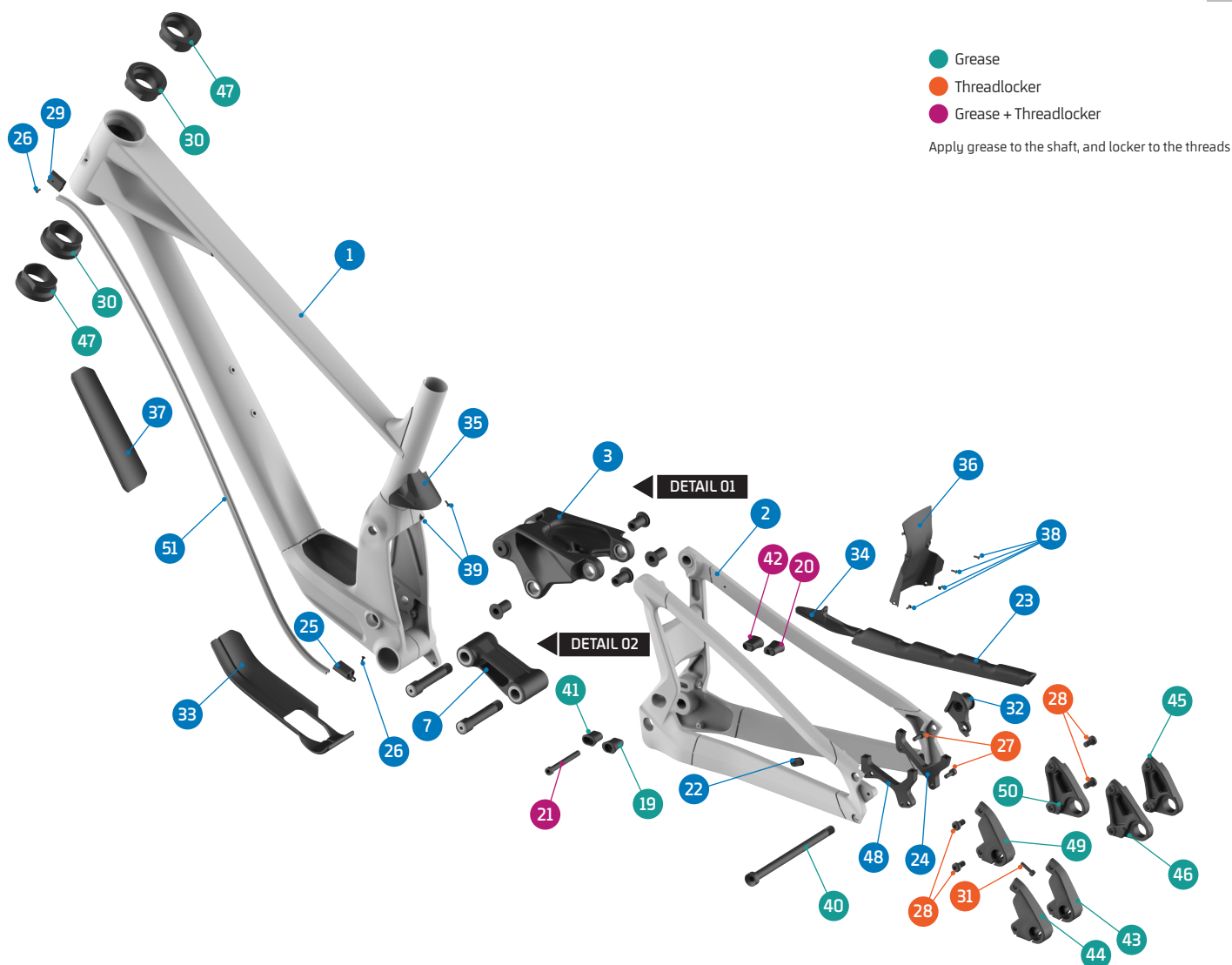
5  
6 N.m



Stellen Sie sicher, dass die Schrauben lang genug sind, damit das Gewinde vollständig greift.  
Eine zu lange Schraube kann die Steuersatzkappe beschädigen.



## 14. SPARE PARTS



| ITEM No. | DESCRIPTION                      | QTY. | PART NUMBER                        | TORQUE |
|----------|----------------------------------|------|------------------------------------|--------|
| 1        | FRAME                            | 1    |                                    |        |
| 2        | REAR TRIANGLE                    | 1    |                                    |        |
| 3        | UPPER LINK                       | 1    | Refer to B2B web for color options |        |
| 4        | PIVOT AXLE, M15                  | 4    | SET 3                              | 17Nm   |
| 5        | SHOCK BOLT                       | 2    | SET 2                              | 8Nm    |
| 6        | BEARING, 24x15x7 3802V-2RS       | 10   | SET 1 / 099.00113                  |        |
| 7        | LOWER LINK                       | 1    | 099.26072                          |        |
| 8        | C-RING                           | 6    | SET 2 & 3                          |        |
| 9        | SPACER, 10x17x6                  | 2    | SET 2                              |        |
| 10       | PIVOT SEAL, EXTERNAL             | 10   | SET 2,3,4 & 9                      |        |
| 11       | PIVOT SEAL, INTERNAL             | 6    | SET 2, 3 & 9                       |        |
| 12       | PIVOT WASHER                     | 4    | SET 3                              |        |
| 13       | PIVOT AXLE, 88L                  | 2    | SET 4                              | 12Nm   |
| 14       | SPACER, 38L                      | 2    | SET 4                              |        |
| 15       | WASHER, 6x10x1t                  | 2    | SET 4                              |        |
| 16       | TAPER NUT                        | 2    | SET 4                              |        |
| 17       | SCREW BOLT, M6x25                | 2    | SET 4                              | 8Nm    |
| 18       | SPACER, LOWER                    | 4    | SET 4                              |        |
| 19       | SHOCK FLIPCHIP CENTER            | 1    | 099.26073                          |        |
| 20       | SHOCK FLIPCHIP DRIVE SIDE CENTER | 1    | 099.26074                          |        |
| 21       | SHOCK BOLT, 65L                  | 1    | SET 2 / 099.25038                  | 10Nm   |
| 22       | CABLE RUBBER                     | 1    | 989.13010                          |        |
| 23       | CHAINSTAY PROTECTOR              | 1    | 099.25016                          |        |
| 24       | DISC MOUNT                       | 1    | SET 5                              |        |
| 25       | CABLE GUIDE                      | 1    | 099.22017                          |        |
| 26       | SCREW BOLT, M3x8                 | 2    | 099.20068                          | 1Nm    |

| ITEM No. | DESCRIPTION                        | QTY. | PART NUMBER  | TORQUE |
|----------|------------------------------------|------|--------------|--------|
| 27       | SCREW BOLT, M6x15                  | 2    | SET 5        | 12Nm   |
| 28       | SCREW BOLT, M8x15                  | 4    | 099.26085    | 15Nm   |
| 29       | CABLE GUIDE HEAD SET               | 1    | 099.22018    |        |
| 30       | HEADSET CUP CENTER                 | 2    | 099.26075    |        |
| 31       | SCREW BOLT, M5x18                  | 1    | SET 6, 7 & 8 | 12Nm   |
| 32       | HANGER                             | 1    | SRAM UDH     |        |
| 33       | BOTTOM BRACKET PROTECTOR           | 1    | 099.26076    |        |
| 34       | YOKE PROTECTOR                     | 1    | 099.26077    |        |
| 35       | FT SHOCK FENDER                    | 1    | 099.26078    |        |
| 36       | RT SHOCK FENDER                    | 1    | 099.26079    |        |
| 37       | DOWN TUBE PROTECTOR                | 1    | 099.26080    |        |
| 38       | SCREW BOLT, M3x8                   | 4    | 099.20068    | 2Nm    |
| 39       | SCREW BOLT, M3x6                   | 2    | 099.12116    | 2Nm    |
| 40       | SUMMUM 26 WHEEL AXLE               | 1    | 099.26081    | 12Nm   |
| 41       | SHOCK FLIPCHIP HIGH/LOW            | 1    | 099.26082    |        |
| 42       | SHOCK FLIPCHIP DRIVE SIDE HIGH/LOW | 1    | 099.26083    |        |
| 43       | DROPOUT -5                         | 1    | SET 7        |        |
| 44       | DROPOUT +5                         | 1    | SET 8        |        |
| 45       | DROPOUT -5 DRIVE SIDE              | 1    | SET 7        |        |
| 46       | DROPOUT +5 DRIVE SIDE              | 1    | SET 8        |        |
| 47       | HEADSET CUP +/- 5                  | 2    | 099.26084    |        |
| 48       | DISC MOUNT +/-5                    | 1    | 099.26086    |        |
| 49       | DROPOUT STANDARD                   | 1    | SET 6        |        |
| 50       | DROPOUT STANDARD DRIVE SIDE        | 1    | SET 6        |        |
| 51       | INTERNAL CABLE GUIDE               | 1    | 099.21010P   |        |

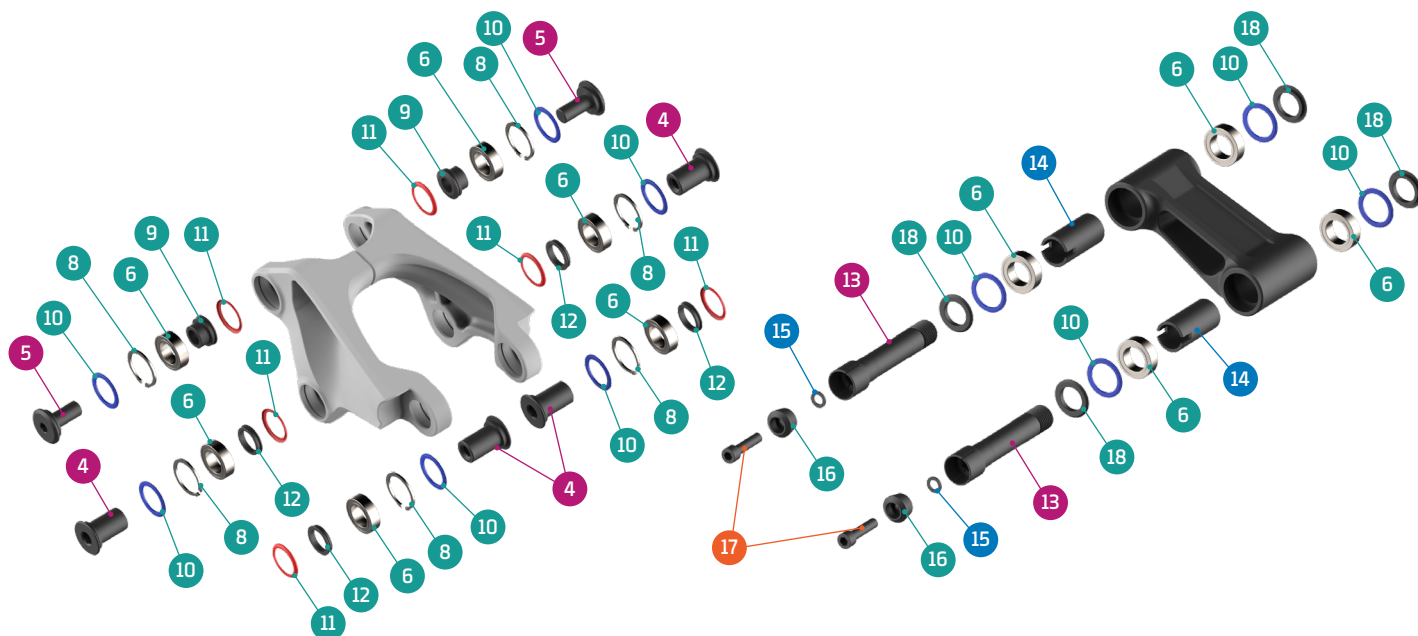


## 14. SPARE PARTS

DE

DETAIL 01

DETAIL 02



SET 6

NEUTRAL DROPOUTS KIT



SET 7

MINUS 5 DROPOUTS KIT



SET 8

PLUS 5 DROPOUTS KIT



SET 9

SEALS KIT



SET 1

ZERO BEARING KIT 25



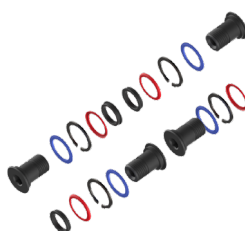
SET 2

SHOCK HARDWARE KIT 24

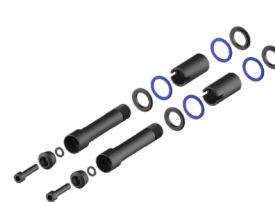


SET 3

UPPER LINK KIT 34



SET 4



SET 5

DISC ADAPTOR KIT



| PART NUMBER | DESCRIPTION                  | COMPONENTS                                                                                                                                      |
|-------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 099.22100   | SET 1: ZERO BEARING KIT 25   | BEARING 3802-2RS, 24x15x7 (x10)                                                                                                                 |
| 099.26202   | SET 2: SHOCK HARDWARE KIT 24 | PIVOT SEAL INTERNAL (x2) / PIVOT SEAL EXTERNAL (x2) / C-RING (x2) / SPACER, 10x17x6 (x2) / SHOCK BOLT (x2) / SHOCK BOLT, 65 (x1)                |
| 099.26300   | SET 3: UPPER LINK KIT 34     | PIVOT WASHER (x4) / PIVOT SEAL INTERNAL (x4) / PIVOT SEAL EXTERNAL (x4) / PIVOT AXLE, M15 (x4) / C-RING (x4)                                    |
| 099.26401   | SET 4: LOWER LINK KIT 39     | PIVOT SEAL EXTERNAL (x4) / PIVOT AXLE 88L, (x2) / SCPACER, 38 (x2) / WASHER (x2) / TAPER NUT (x2) / SCREW BOLT, M6x25 (x2) / SCPACER LOWER (x4) |
| 099.25018   | SET 5: DISC ADAPTOR KIT      | DISC ADAPTOR (x1) / SCREW BOLT (x2)                                                                                                             |
| 099.26087   | SET 6: NEUTRAL DROPOUTS KIT  | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT STANDARD (x1) / DROPOUT STANDARD DRIVE SIDE (x1)                                                      |
| 099.26088   | SET 7: MINUS 5 DROPOUTS KIT  | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT -5 (x1) / DROPOUT -5 DRIVE SIDE (x1)                                                                  |
| 099.26089   | SET 8: PLUS 5 DROPOUTS KIT   | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT +5 (x1) / DROPOUT +5 DRIVE SIDE (x1)                                                                  |
| 099.26062   | SET 9: SEALS KIT             | PIVOT SEAL INTERNAL (x8) / PIVOT SEAL EXTERNAL (x10)                                                                                            |



## 15. KINEMATIK

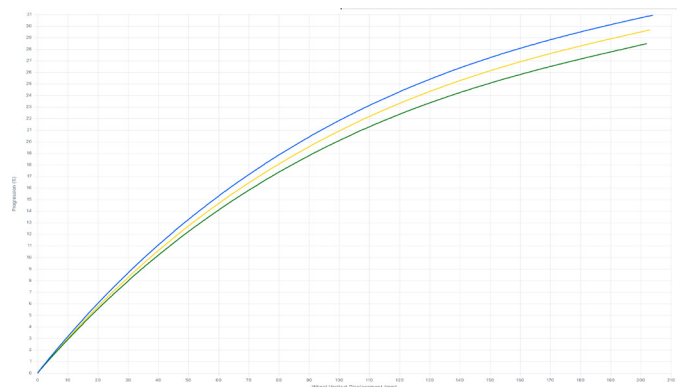
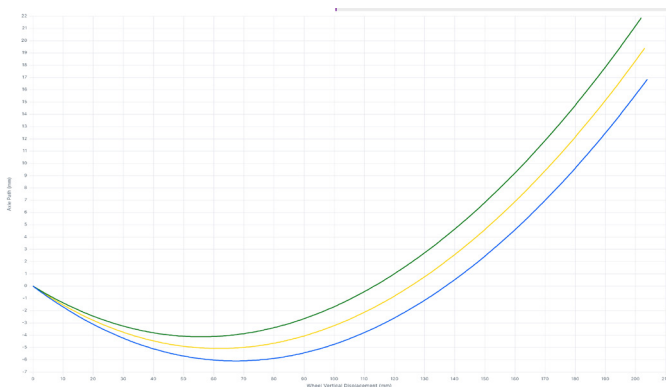
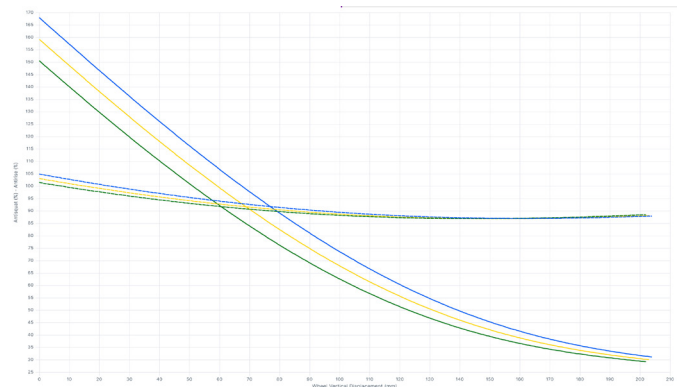
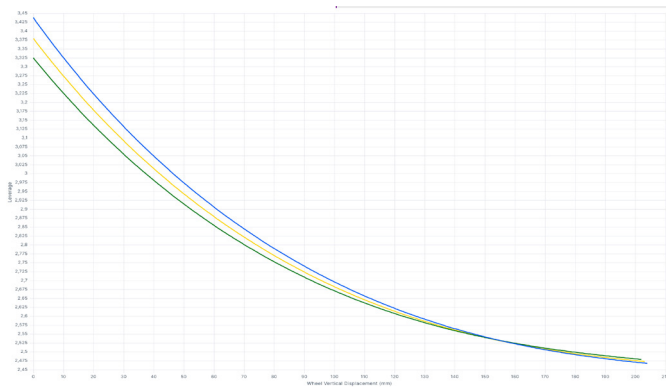
Die Kinematik des neuen Summum sowie die Geometrie basieren zu einem großen Teil auf der Entwicklung, die vom MFR-Team während der Saison am Summum-Prototyp durchgeführt wurde, wobei immer berücksichtigt wurde, dass die Bandbreite der Nutzer viel größer sein wird. Aus dem Einstellungsbereich des Summum-Prototyps haben wir diejenigen ausgewählt, von denen wir glauben, dass sie zu den meisten Fahrerprofilen passen.

Gegenüber dem ursprünglichen Summum-Prototyp haben wir einige Änderungen vorgenommen, um in den ersten 50 % des Federwegs ein geringeres Übersetzungsverhältnis für guten Gegenhalt (Support) zu erzielen. Ab diesem Punkt haben wir das Verhältnis erhöht, um die Progression zu verringern und den gesamten Federweg zu nutzen.

Wir haben einen Flip-Chip an der unteren Dämpferaufnahme entwickelt, der hauptsächlich die Geometrie, aber auch den Startpunkt des Übersetzungsverhältnisses und die Progression um 1,5 % verändert. Es ist eine kleine Modifikation, die jedoch interessant sein kann, um das Bike an verschiedene Vorlieben, Terrains oder Dämpfer anzupassen.

Hier finden Sie die üblichen Informationen und im Anschluss das "Standard"-Setup im Vergleich zu den verschiedenen Flip-Chip-Einstellungen. Gelb = "Standard"; Grün = -3.5 (Low-Position) und Blau = +3.5 (High-Position).

Empfohlene Federn für den Hinterbaudämpfer: M 450 lb/in, L 500 lb/in und XL 550 lb/in.





Alle Informationen und Bilder in diesem Dokument dienen nur zu Informationszwecken und stellen keinen rechtlichen Vertrag zwischen Mondraker und einer natürlichen oder juristischen Person dar. Spezifikationen, Geometrien und andere veröffentlichte technische Informationen können ohne vorherige Ankündigung geändert werden.

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MANUELS ET DOCUMENTS





## CONSIGNES GÉNÉRALES ET DE SÉCURITÉ

Les 3 icônes suivantes peuvent apparaître dans ce guide technique. Chacune d'elles indique que les précautions indiquées doivent être prises :

### **AVERTISSEMENT :**

Le non-respect des instructions ou une utilisation inappropriée du vélo peuvent causer des blessures graves, voire entraîner la mort. Ces opérations impliquent des difficultés techniques et, si elles ne sont pas effectuées correctement, elles pourraient endommager votre vélo ou entraîner l'annulation de la garantie.

### **ATTENTION :**

Ne pas suivre les instructions ou utiliser le vélo de manière inappropriée peut provoquer des blessures légères. Ces tâches impliquent une difficulté technique et, si elles ne sont pas effectuées correctement, elles pourraient provoquer des dommages sur votre vélo ou entraîner l'annulation de la garantie.

### **INFORMATIONS**

Informations indispensables à la réalisation correcte de cette tâche en évitant de causer des dommages au vélo ou de perdre la garantie, mais qui ne présentent aucun risque pour les personnes.

## AUTRES CONSIDÉRATIONS

- L'utilisation de pièces de rechange non originales peut entraîner des dommages, des dysfonctionnements et des accidents aux conséquences graves..
- Pour effectuer certaines des opérations décrites dans ce manuel, des qualifications supérieures à celles de l'utilisateur de vélo moyen sont nécessaires. Si vous ne pouvez pas suivre l'une de ces étapes, apportez votre vélo auprès d'un revendeur Mondraker agréé pour effectuer l'entretien et le remplacement de ses composants. L'installation incorrecte de pièces de rechange peut entraîner des dysfonctionnements, des accidents, des blessures et l'annulation de la garantie.

## NETTOYAGE ET ENTRETIEN

- Une fois les pièces démontées, il est recommandé de nettoyer, de graisser et de mettre du frein filet (si nécessaire) sur les composants que vous comptez réutiliser.

## LÉGENDE DES SYMBOLES



Frein filet de niveau moyen. Loctite 243 ou similaire.



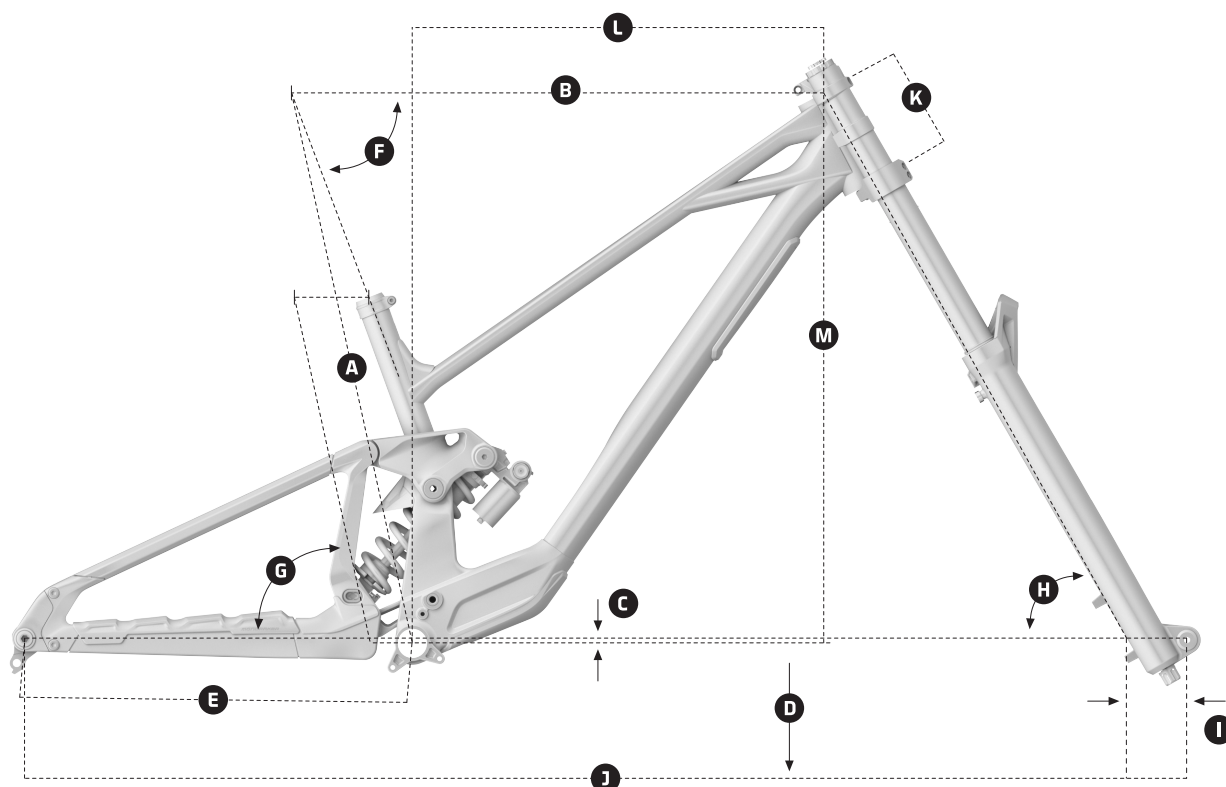
Graisse synthétique de qualité pour montage.



Graisse spéciale de friction pour carbone.



## 1. GÉOMÉTRIE



### SUMMUM

| TAILLE DU CADRE                    | M [STD]   | L [STD]   | XL [STD]  |
|------------------------------------|-----------|-----------|-----------|
| A Longueur du tube de selle        | 400 mm    | 400 mm    | 400 mm    |
| B Longueur du tube supérieur       | 710 mm    | 740 mm    | 770 mm    |
| C Différence axe boîtier/axe moyeu | -5 mm     | -5 mm     | -5 mm     |
| D Hauteur de pédalier              | 350 mm    | 350 mm    | 350 mm    |
| E Longueur des bases               | 455 mm    | 455 mm    | 455 mm    |
| F Angle de tube de selle           | 78°       | 78°       | 78°       |
| G Angle de tube de selle effectif  | 70°       | 70°       | 70°       |
| H Angle du tube de direction       | 62,5°     | 62,5°     | 62,5°     |
| I Déport de fourche                | 52 mm     | 52 mm     | 52 mm     |
| J Empattement                      | 1285,4 mm | 1315,4 mm | 1345,4 mm |
| K Longueur du tube de direction    | 120 mm    | 120 mm    | 120 mm    |
| L Reach                            | 450 mm    | 480 mm    | 510 mm    |
| M Stack                            | 642,6 mm  | 642,6 mm  | 642,6 mm  |

**RÉGLAGE DU REACH PAR CUVETTES** +/-5mm · **RÉGLAGE DE LA LONGUEUR DES BASES** +/-5mm · **RÉGLAGE FLIP CHIP AMORTISSEUR** +/-5mm hauteur de boîtier, angles 0,35°

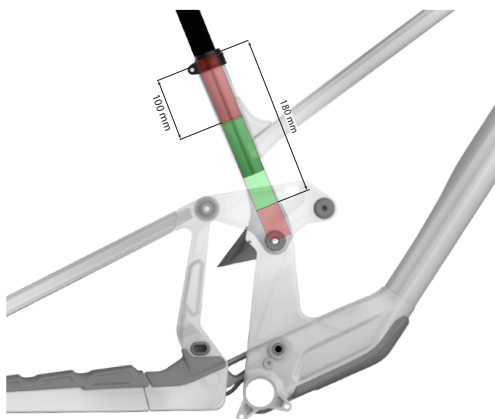


Visitez <https://mondraker.com/wo/fr/frameset-summum-rr-mullet> pour configurer votre géométrie personnalisée et obtenir des données précises selon la position du flip chip, des pattes et des cuvettes de direction.

## 2. SPÉCIFICATIONS TECHNIQUES DU CADRE

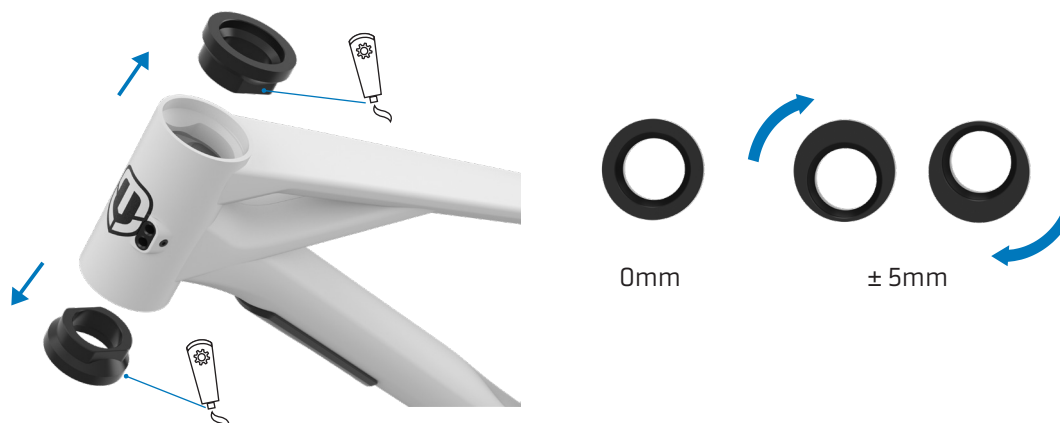
|                                           |                                                               |
|-------------------------------------------|---------------------------------------------------------------|
| <b>TAILLE DE CADRE</b>                    | M / L / XL                                                    |
| <b>TAILLE ROUE AVANT (pouces)</b>         | 29"                                                           |
| <b>AXE AVANT</b>                          | 110mm x 20mm (BOOST)                                          |
| <b>TAILLE ROUE ARRIÈRE (pouces)</b>       | 27,5"                                                         |
| <b>AXE ARRIÈRE</b>                        | 157mm x 12mm (DH)                                             |
| <b>ESSIEU ARRIÈRE</b>                     | 12X157 P1.0 L183 (head 19mm OD)                               |
| <b>NOMBRE D'EMPLACEMENTS PORTE-BIDONS</b> | 1                                                             |
| <b>BOÎTIER DE PÉDALIER</b>                | BSA 83mm                                                      |
| <b>DÉBATTEMENT ARRIÈRE</b>                | 200mm                                                         |
| <b>AMORTISSEUR ARRIÈRE</b>                | 225 x 75mm TRUNNION, 30 x 8mm                                 |
| <b>DÉBATTEMENT AVANT</b>                  | 200mm                                                         |
| <b>DIAMÈTRE DE LA TIGE DE SELLE</b>       | 31.6mm / 34.9mm                                               |
| <b>LIGNE DE CHAÎNE DIRECTION</b>          | 57mm                                                          |
| <b>JEU DE DIRECTION</b>                   | Onoff DH ARS (Adjustable Reach System) 1-1/8", 1-1/8"         |
| <b>NOMBRE DE DENTS MAXIMAL (PLATEAU)</b>  | 36T                                                           |
| <b>FREIN ARRIÈRE</b>                      | POST MOUNT CUSTOM ADAPTER, DIRECT 200 (220mm max with spacer) |
| <b>DÉGAGEMENT MAXIMAL PNEUS</b>           | 27'5x2.6                                                      |

## 3. PROFONDEUR D'INSERTION DE TIGE



| TAILLE CADRE | MIN. (mm) | MAX. (mm) |
|--------------|-----------|-----------|
| <b>XL</b>    | 100       | 175       |
| <b>L</b>     | 100       | 175       |
| <b>M</b>     | 100       | 175       |

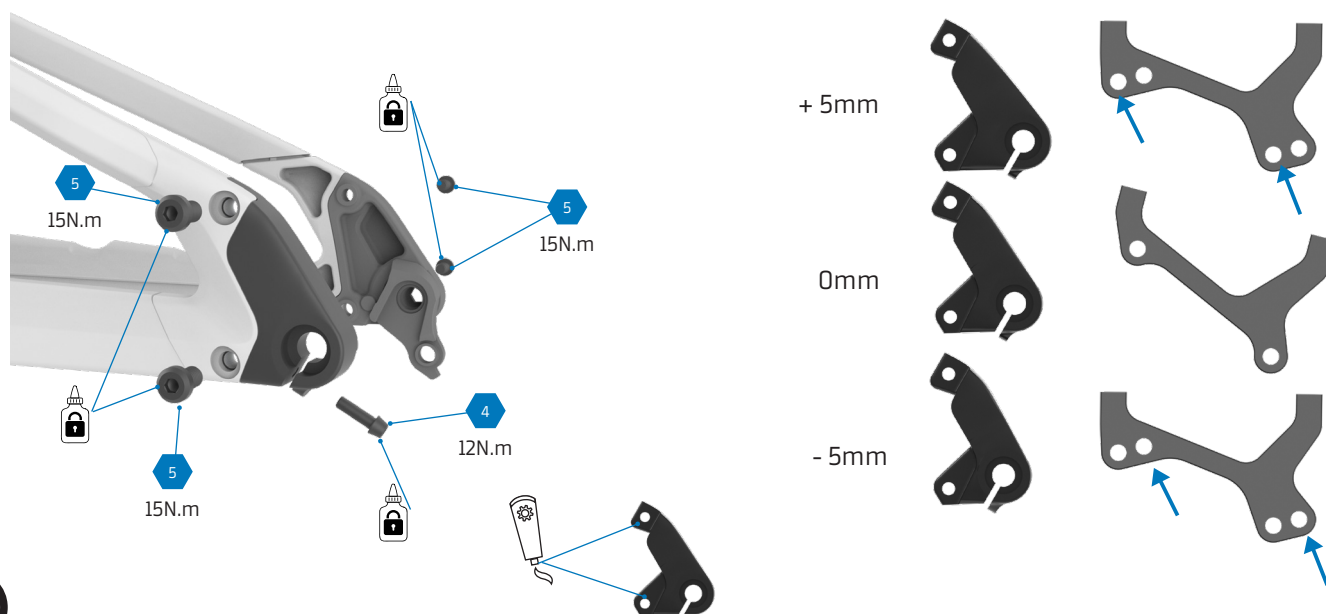
## 4. CUVETTES DE DIRECTION



Les cuvettes de direction supérieure et inférieure doivent toujours être installées avec la même orientation de leur excentricité. L'utilisation de ces cuvettes permet de modifier la longueur du reach.

Pour ajuster l'angle de direction, il faut utiliser le système flip chip du cadre. N'oubliez pas d'appliquer une légère couche de graisse de montage sur les surfaces de contact avant l'installation.

## 5. PATTES

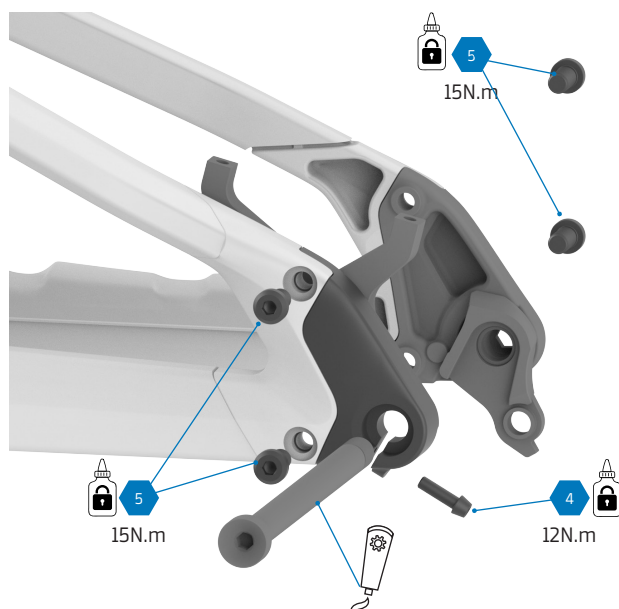


Le vélo est livré de série avec des pattes standard. Si vous installez des pattes de plus grande ou plus petite taille, **il est impératif de remplacer également le support de l'étrier de frein**. L'adaptateur standard n'est compatible qu'avec les pattes de série.



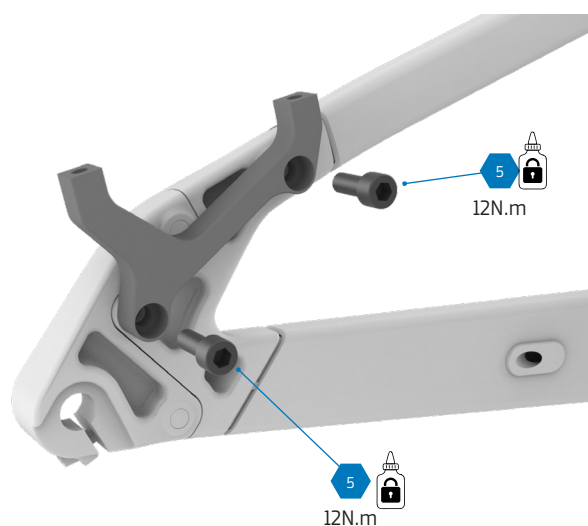
Visitez <https://mondraker.com/wo/fr/frameset-summum-rr-mullet> pour configurer votre géométrie personnalisée et obtenir des données précises selon la position du flip chip, des pattes et des cuvettes de direction.

## 6. INSÉRER L'AXE DE ROUE ARRIÈRE



1. Desserrer légèrement les vis des pattes (environ 3/4 de tour) et desserrer la vis de serrage
2. Insérer l'axe et serrer au couple de serrage spécifié.
3. Serrer les vis des pattes au couple de serrage spécifié.
4. Serrer la vis de serrage au couple de serrage spécifié.

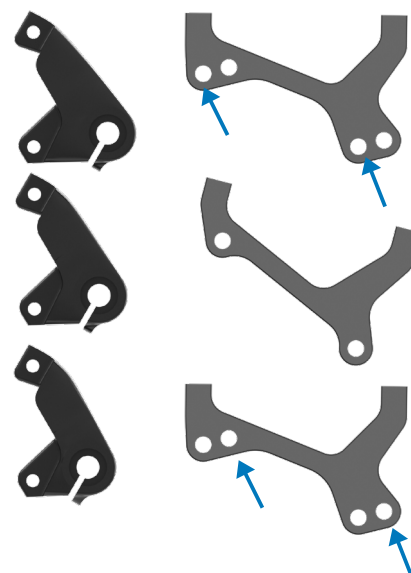
## 7. ADAPTATEUR DE FREIN



+ 5mm

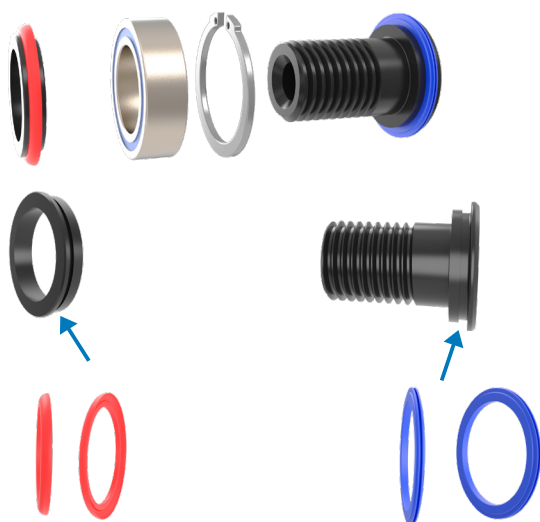
0mm

- 5mm



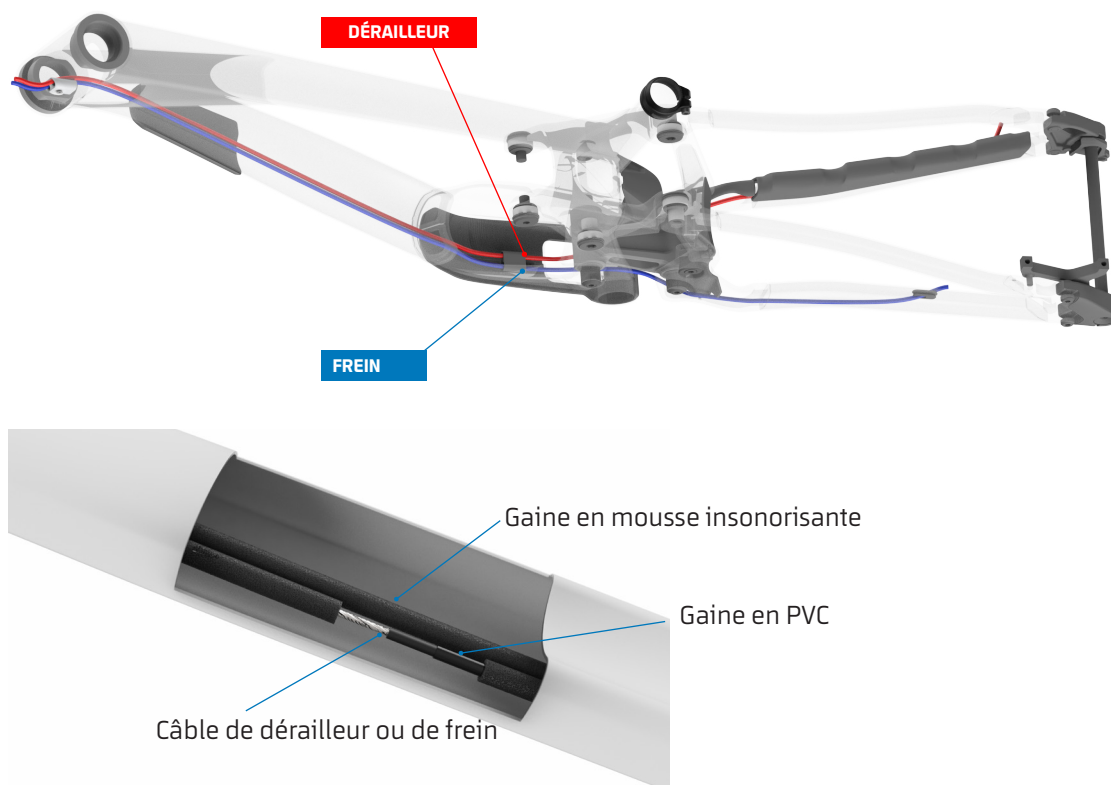
Visitez <https://mondraker.com/wo/fr/frameset-summum-rr-mullet> pour configurer votre géométrie personnalisée et obtenir des données précises selon la position du flip chip, des pattes et des cuvettes de direction.

## 8. JOINTS EN CAOUTCHOUC

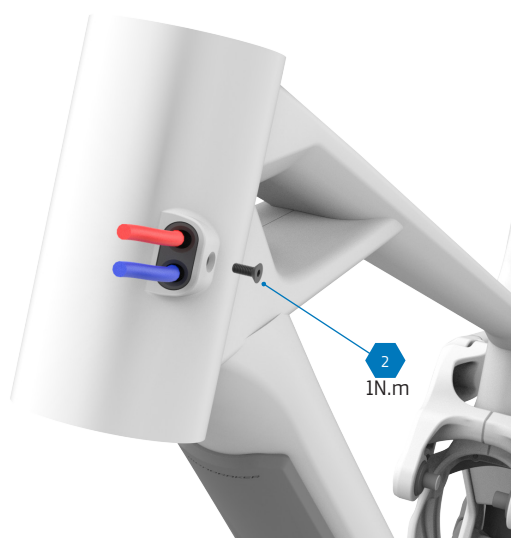


Faites attention à la position et à la forme des joints en caoutchouc. Les couleurs rouge et bleue ont été utilisées pour les différencier, mais en réalité, les joints en caoutchouc sont noirs.

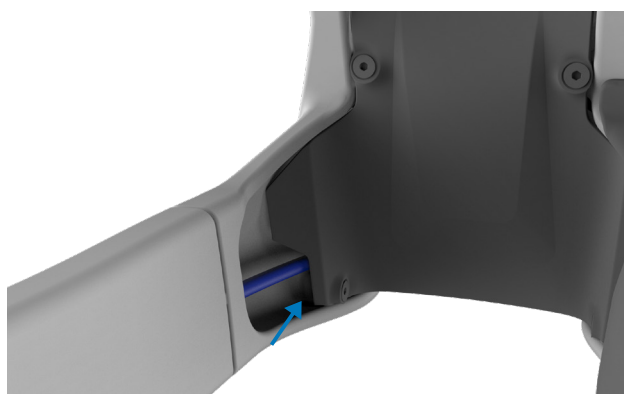
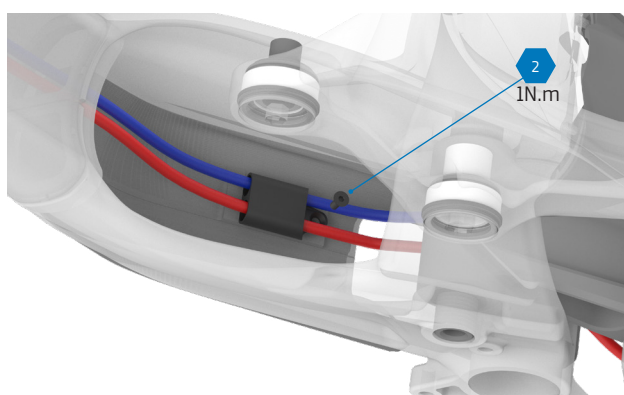
## 9. PASSAGE INTERNE DES CÂBLES



## 9. PASSAGE INTERNE DES CÂBLES

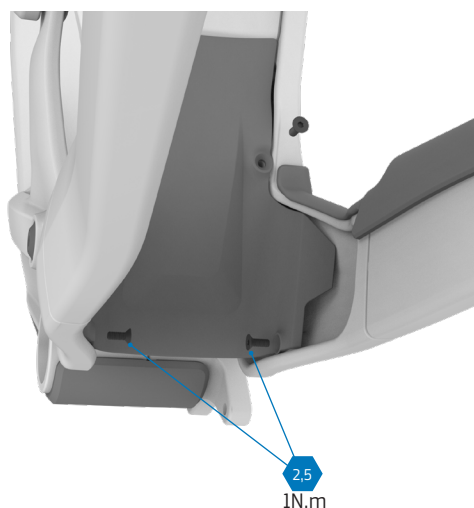
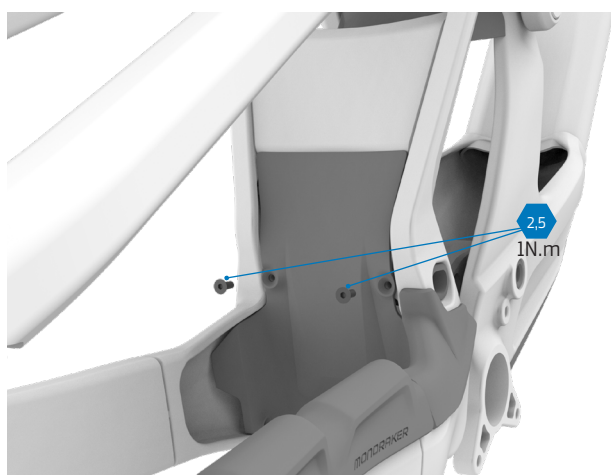
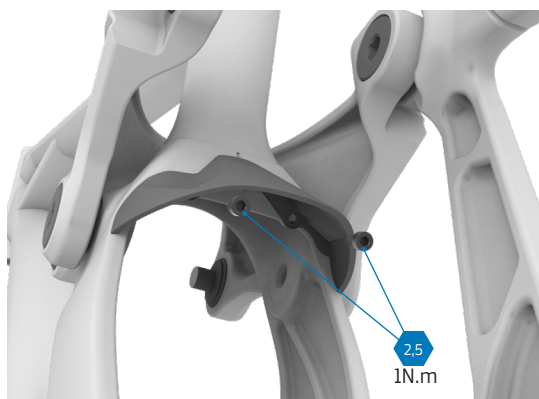


Le passe-câble est fixé au cadre à l'aide de la vis.

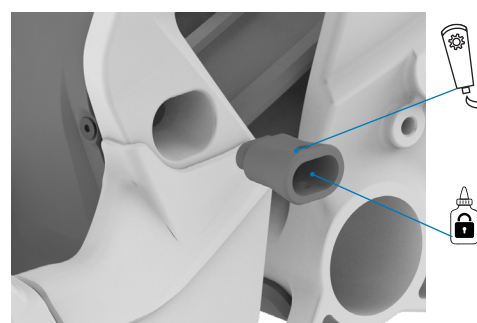
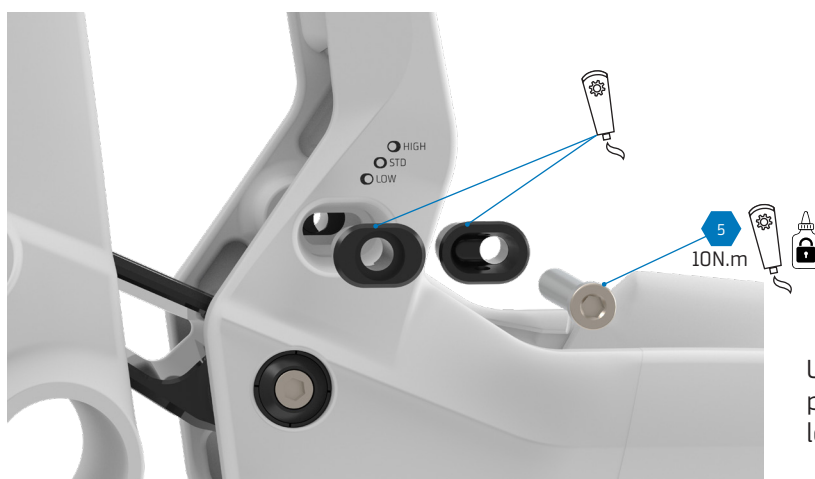


Utilisez l'orifice pour faire passer le câble dans la base arrière.

## 10. DÉFLECTEURS



## 11. FLIP CHIP DE FIXATION DE L'AMORTISSEUR

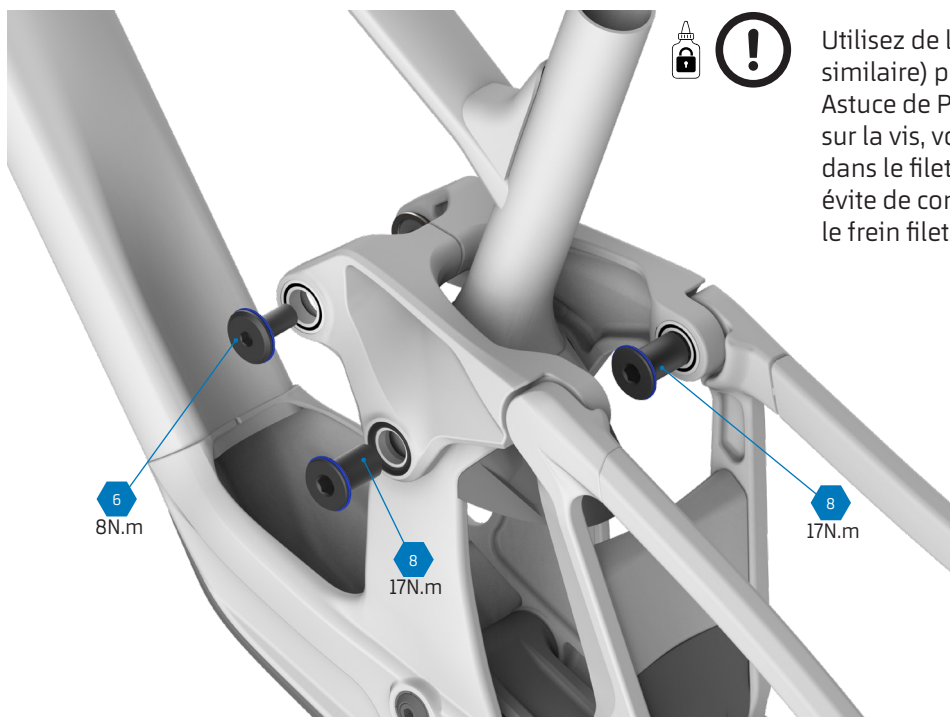


Utilisez de la Loctite 243 (ou un frein filet similaire) pour le filetage, et de la graisse de montage pour les surfaces externes du flip chip.

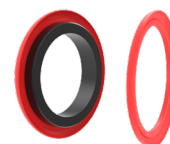
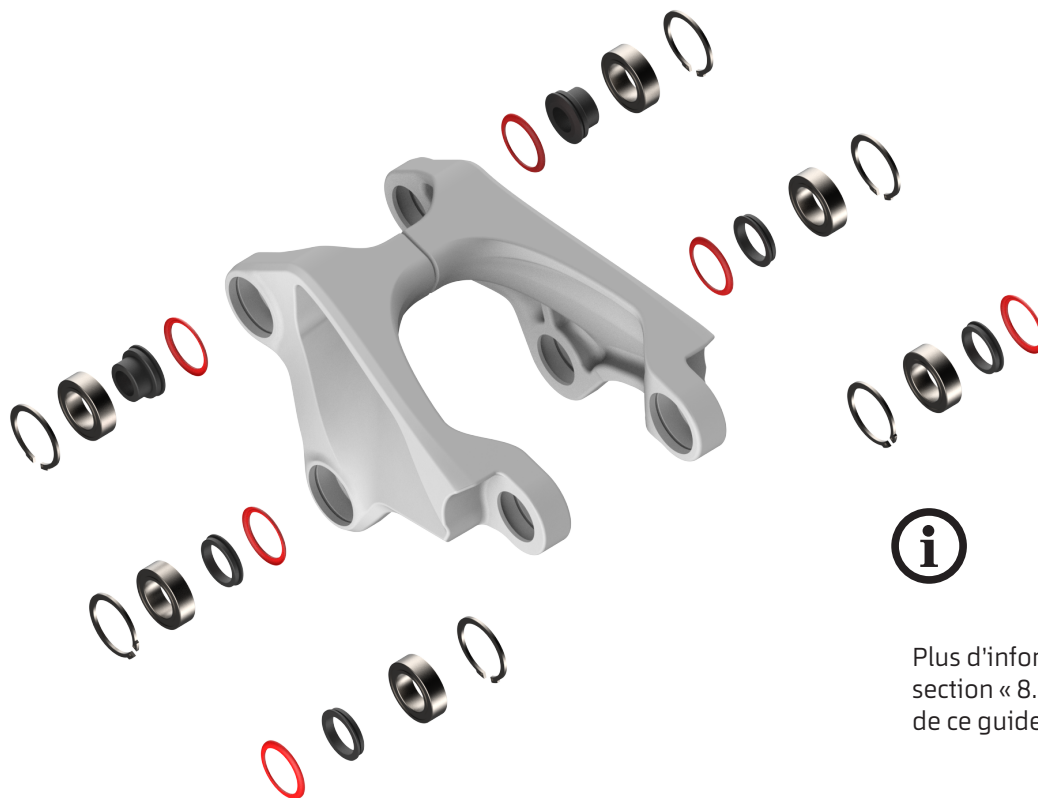
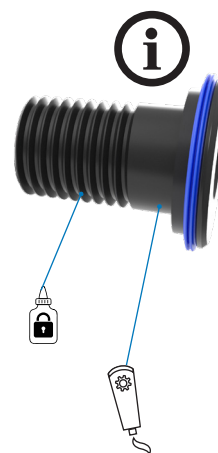


Visitez <https://mondraaker.com/wo/fr/frameset-summum-rr-mullet> pour configurer votre géométrie personnalisée et obtenir des données précises selon la position du flip chip, des pattes et des cuvettes de direction.

## 11. BIELLETTE SUPÉRIEURE



Utilisez de la Loctite 243 (ou un frein filet similaire) pour le filetage.  
Astuce de Pro : Au lieu d'appliquer le frein filet sur la vis, vous pouvez le mettre directement dans le filetage interne du cadre du vélo. Cela évite de contaminer les autres composants avec le frein filet lors de l'insertion de la vis.

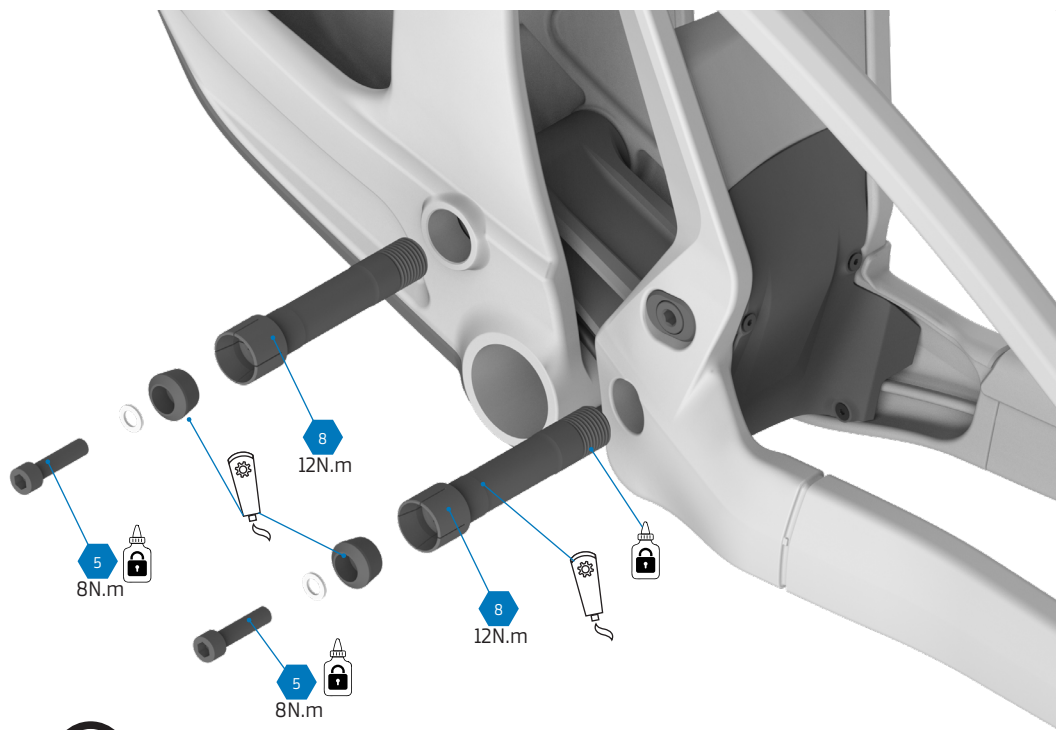


Plus d'informations : Consultez la section « 8. JOINTS EN CAOUTCHOUC » de ce guide.



Utilisez de la graisse de montage pour assembler les composants.

## 12. BIELLETTE INFÉRIURE



Utilisez de la Loctite 243 (ou un frein filet similaire) pour le filetage.



Utilisez de la graisse de montage pour assembler les composants.

### 13. POTENCE



+5 mm plaque d'espacement



+5 mm plaque d'espacement



M6 X 50 (x2)



M6 X 40 (x2)



M6 X 30 (x2)

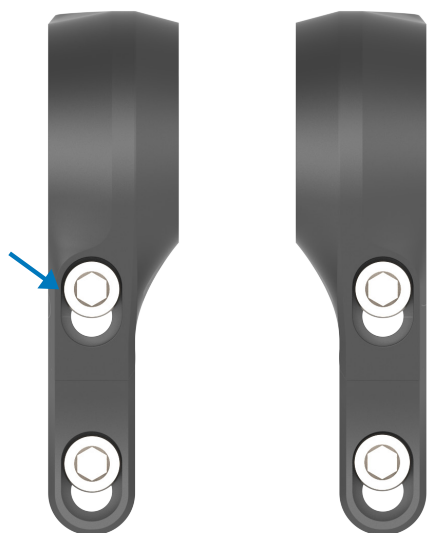


M6 X 20 (x4)

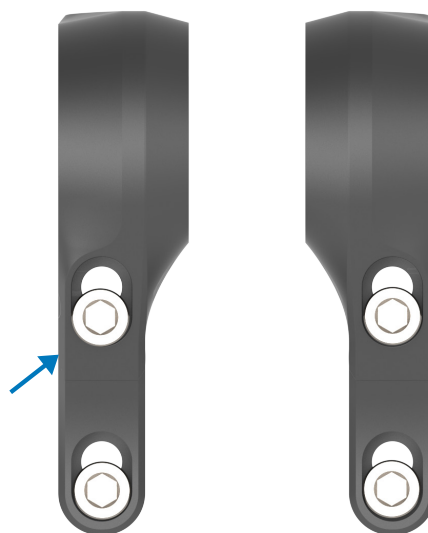


All screws must be tightened to 6 Nm torque force.

### 13. POTENCE



Potence de 45 mm.



Potence de 50 mm.

### RÉGLAGE DU GUIDON

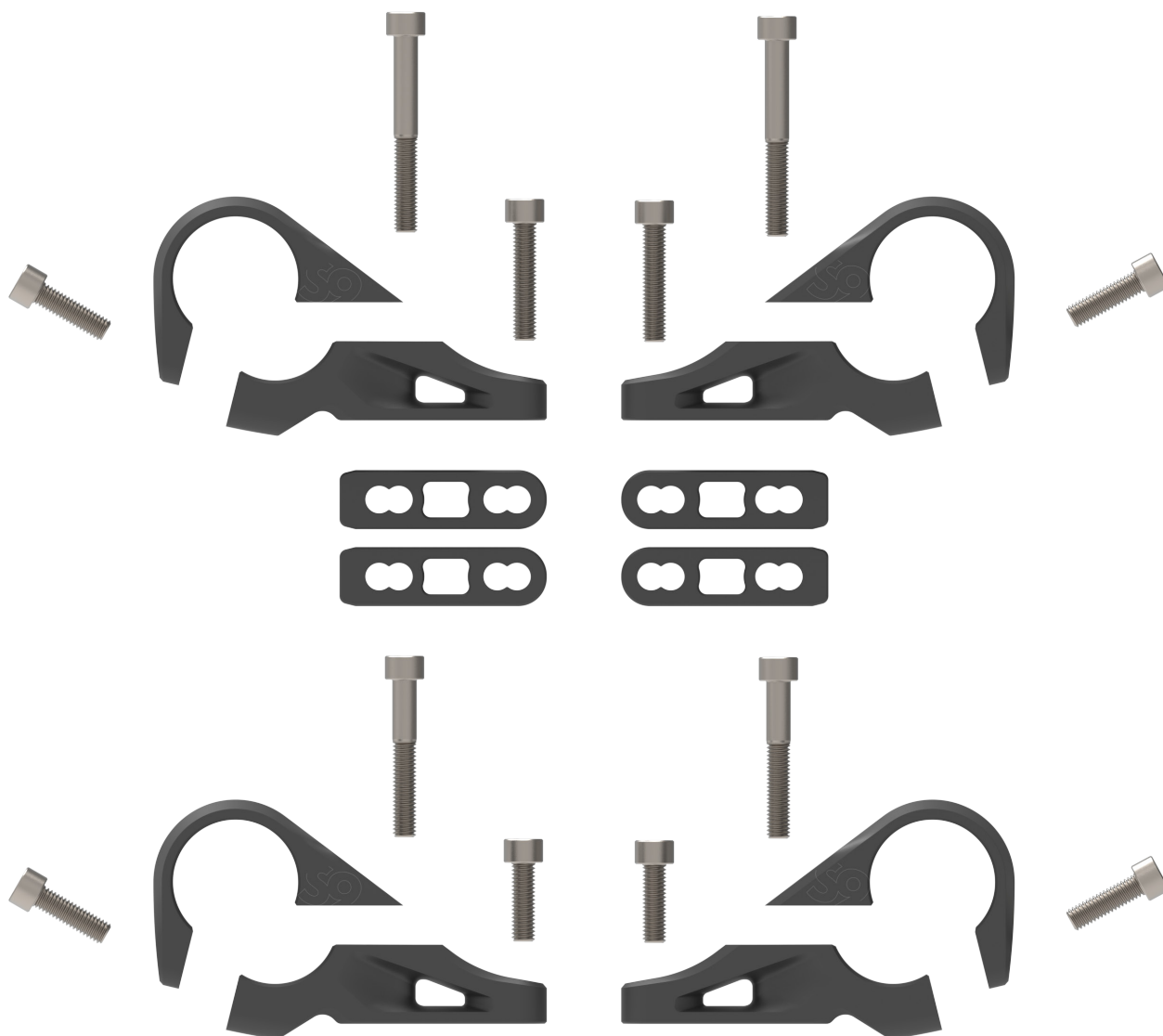


Position confortable.

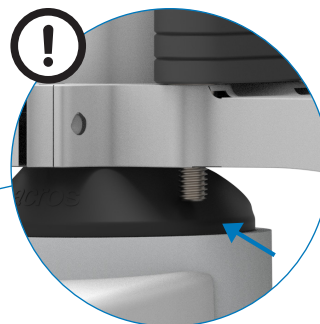
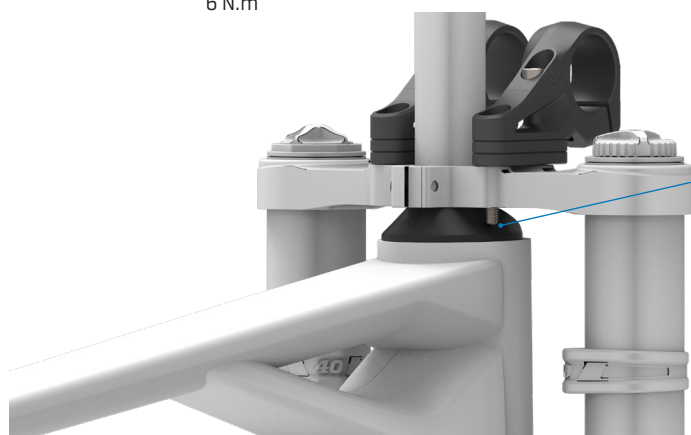


Position stable.

### 13. POTENCE



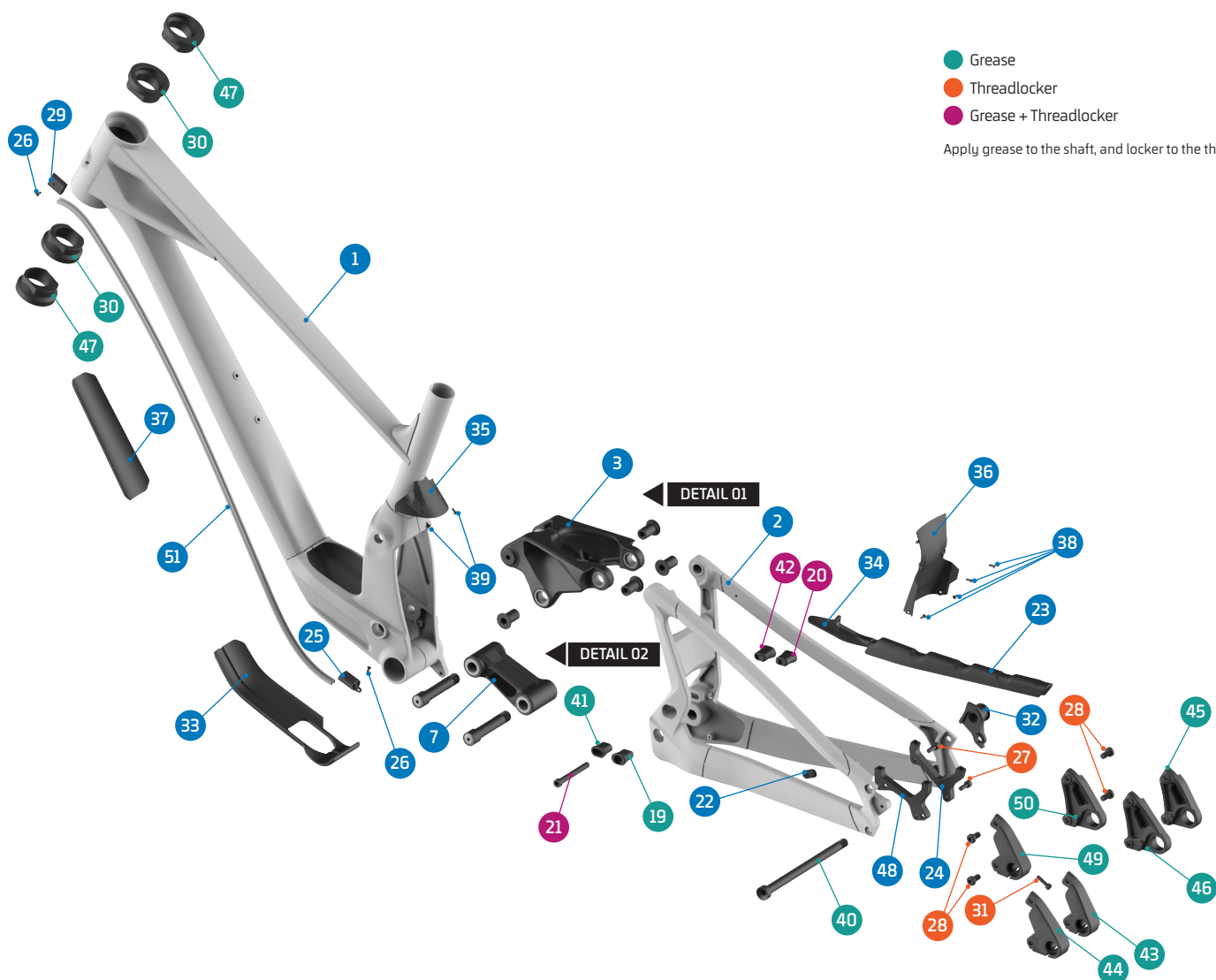
**5**  
6 N.m



Assurez-vous que les vis sont suffisamment longues pour que le filetage prenne complètement.  
Utilisation d'une vis trop longue risque d'endommager le capot du jeu de direction.



## 14. SPARE PARTS



| ITEM No. | DESCRIPTION                      | QTY. | PART NUMBER                        | TORQUE |
|----------|----------------------------------|------|------------------------------------|--------|
| 1        | FRAME                            | 1    |                                    |        |
| 2        | REAR TRIANGLE                    | 1    |                                    |        |
| 3        | UPPER LINK                       | 1    | Refer to B2B web for color options |        |
| 4        | PIVOT AXLE, M15                  | 4    | SET 3                              | 17Nm   |
| 5        | SHOCK BOLT                       | 2    | SET 2                              | 8Nm    |
| 6        | BEARING, 24x15x7 3802V-2RS       | 10   | SET 1 / 099.00113                  |        |
| 7        | LOWER LINK                       | 1    | 099.26072                          |        |
| 8        | C-RING                           | 6    | SET 2 & 3                          |        |
| 9        | SPACER, 10x17x6                  | 2    | SET 2                              |        |
| 10       | PIVOT SEAL, EXTERNAL             | 10   | SET 2,3,4 & 9                      |        |
| 11       | PIVOT SEAL, INTERNAL             | 6    | SET 2, 3 & 9                       |        |
| 12       | PIVOT WASHER                     | 4    | SET 3                              |        |
| 13       | PIVOT AXLE, 88L                  | 2    | SET 4                              | 12Nm   |
| 14       | SPACER, 38L                      | 2    | SET 4                              |        |
| 15       | WASHER, 6x10x1t                  | 2    | SET 4                              |        |
| 16       | TAPER NUT                        | 2    | SET 4                              |        |
| 17       | SCREW BOLT, M6x25                | 2    | SET 4                              | 8Nm    |
| 18       | SPACER, LOWER                    | 4    | SET 4                              |        |
| 19       | SHOCK FLIPCHIP CENTER            | 1    | 099.26073                          |        |
| 20       | SHOCK FLIPCHIP DRIVE SIDE CENTER | 1    | 099.26074                          |        |
| 21       | SHOCK BOLT, 65L                  | 1    | SET 2 / 099.25038                  | 10Nm   |
| 22       | CABLE RUBBER                     | 1    | 989.13010                          |        |
| 23       | CHAINSTAY PROTECTOR              | 1    | 099.25016                          |        |
| 24       | DISC MOUNT                       | 1    | SET 5                              |        |
| 25       | CABLE GUIDE                      | 1    | 099.22017                          |        |
| 26       | SCREW BOLT, M3x8                 | 2    | 099.20068                          | 1Nm    |

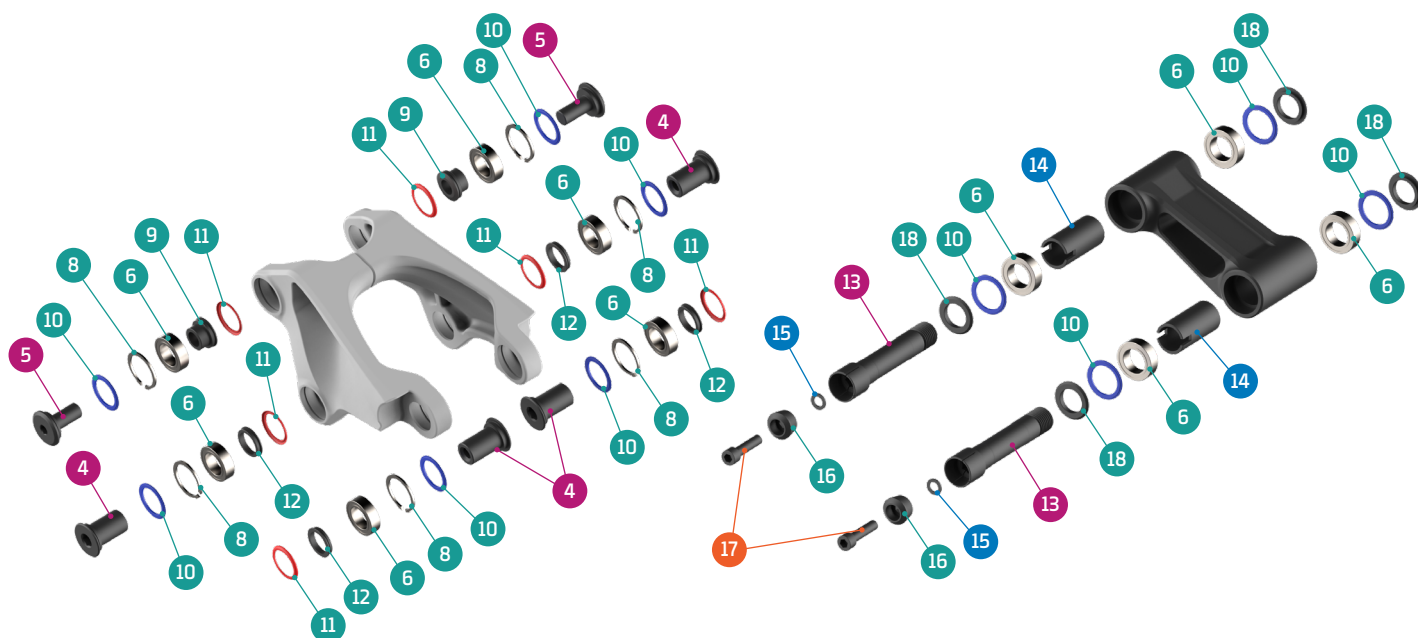
| ITEM No. | DESCRIPTION                        | QTY. | PART NUMBER  | TORQUE |
|----------|------------------------------------|------|--------------|--------|
| 27       | SCREW BOLT, M6x15                  | 2    | SET 5        | 12Nm   |
| 28       | SCREW BOLT, M8x15                  | 4    | 099.26085    | 15Nm   |
| 29       | CABLE GUIDE HEAD SET               | 1    | 099.22018    |        |
| 30       | HEADSET CUP CENTER                 | 2    | 099.26075    |        |
| 31       | SCREW BOLT, M5x18                  | 1    | SET 6, 7 & 8 | 12Nm   |
| 32       | HANGER                             | 1    | SRAM UDH     |        |
| 33       | BOTTOM BRACKET PROTECTOR           | 1    | 099.26076    |        |
| 34       | YOKE PROTECTOR                     | 1    | 099.26077    |        |
| 35       | FT SHOCK FENDER                    | 1    | 099.26078    |        |
| 36       | RT SHOCK FENDER                    | 1    | 099.26079    |        |
| 37       | DOWN TUBE PROTECTOR                | 1    | 099.26080    |        |
| 38       | SCREW BOLT, M3x8                   | 4    | 099.20068    | 2Nm    |
| 39       | SCREW BOLT, M3x6                   | 2    | 099.12116    | 2Nm    |
| 40       | SUMMUM 26 WHEEL AXLE               | 1    | 099.26081    | 12Nm   |
| 41       | SHOCK FLIPCHIP HIGH/LOW            | 1    | 099.26082    |        |
| 42       | SHOCK FLIPCHIP DRIVE SIDE HIGH/LOW | 1    | 099.26083    |        |
| 43       | DROPOUT -5                         | 1    | SET 7        |        |
| 44       | DROPOUT +5                         | 1    | SET 8        |        |
| 45       | DROPOUT -5 DRIVE SIDE              | 1    | SET 7        |        |
| 46       | DROPOUT +5 DRIVE SIDE              | 1    | SET 8        |        |
| 47       | HEADSET CUP +/- 5                  | 2    | 099.26084    |        |
| 48       | DISC MOUNT +/- 5                   | 1    | 099.26086    |        |
| 49       | DROPOUT STANDARD                   | 1    | SET 6        |        |
| 50       | DROPOUT STANDARD DRIVE SIDE        | 1    | SET 6        |        |
| 51       | INTERNAL CABLE GUIDE               | 1    | 099.21010P   |        |

## 14. SPARE PARTS

FR

DETAIL 01

DETAIL 02



SET 6

NEUTRAL DROPOUTS KIT



SET 7

MINUS 5 DROPOUTS KIT



SET 8

PLUS 5 DROPOUTS KIT



SET 9

SEALS KIT



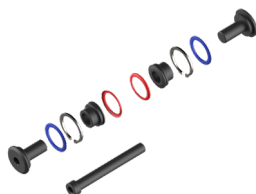
SET 1

ZERO BEARING KIT 25



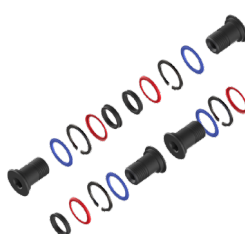
SET 2

SHOCK HARDWARE KIT 24



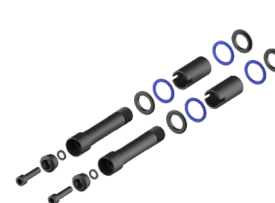
SET 3

UPPER LINK KIT 34



SET 4

SET 4



SET 5

DISC ADAPTOR KIT



| PART NUMBER | DESCRIPTION                  | COMPONENTS                                                                                                                                      |
|-------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 099.22100   | SET 1: ZERO BEARING KIT 25   | BEARING 3802-2RS, 24x15x7 (x10)                                                                                                                 |
| 099.26202   | SET 2: SHOCK HARDWARE KIT 24 | PIVOT SEAL INTERNAL (x2) / PIVOT SEAL EXTERNAL (x2) / C-RING (x2) / SPACER, 10x17x6 (x2) / SHOCK BOLT (x2) / SHOCK BOLT, 65 (x1)                |
| 099.26300   | SET 3: UPPER LINK KIT 34     | PIVOT WASHER (x4) / PIVOT SEAL INTERNAL (x4) / PIVOT SEAL EXTERNAL (x4) / PIVOT AXLE, M15 (x4) / C-RING (x4)                                    |
| 099.26401   | SET 4: LOWER LINK KIT 39     | PIVOT SEAL EXTERNAL (x4) / PIVOT AXLE 88L, (x2) / SCPACER, 38 (x2) / WASHER (x2) / TAPER NUT (x2) / SCREW BOLT, M6x25 (x2) / SCPACER LOWER (x4) |
| 099.25018   | SET 5: DISC ADAPTOR KIT      | DISC ADAPTOR (x1) / SCREW BOLT (x2)                                                                                                             |
| 099.26087   | SET 6: NEUTRAL DROPOUTS KIT  | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT STANDARD (x1) / DROPOUT STANDARD DRIVE SIDE (x1)                                                      |
| 099.26088   | SET 7: MINUS 5 DROPOUTS KIT  | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT -5 (x1) / DROPOUT -5 DRIVE SIDE (x1)                                                                  |
| 099.26089   | SET 8: PLUS 5 DROPOUTS KIT   | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT +5 (x1) / DROPOUT +5 DRIVE SIDE (x1)                                                                  |
| 099.26062   | SET 9: SEALS KIT             | PIVOT SEAL INTERNAL (x8) / PIVOT SEAL EXTERNAL (x10)                                                                                            |



## 15. CINÉMATIQUE

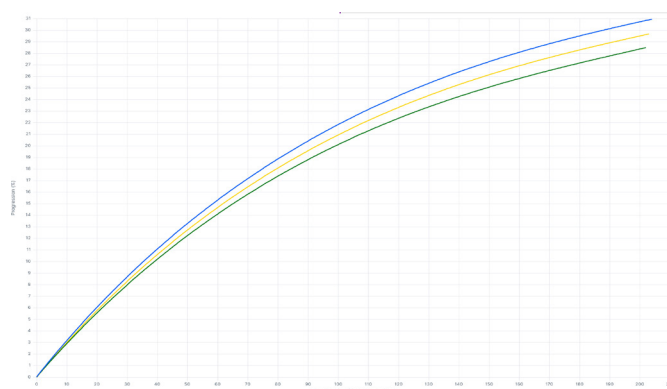
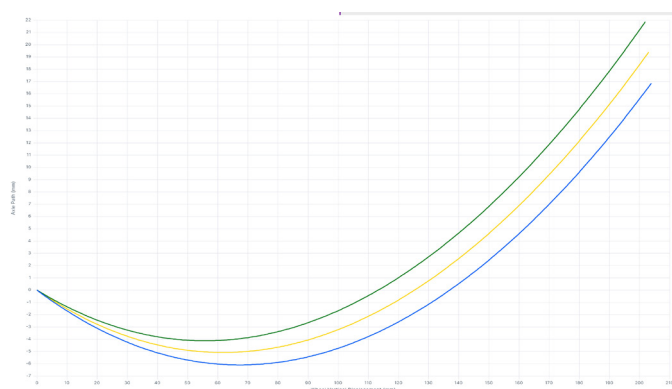
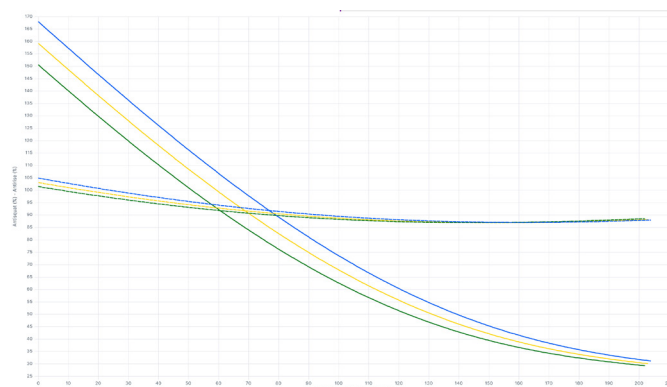
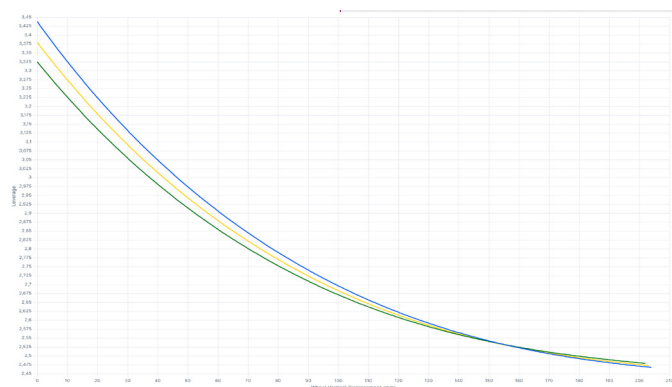
La cinématique du nouveau Summum, ainsi que sa géométrie, reposent en grande partie sur le développement réalisé par le MFR sur le prototype Summum au cours de la saison, en gardant toujours à l'esprit que le panel d'utilisateurs sera beaucoup plus large. Parmi la vaste plage de réglages du prototype Summum, nous avons sélectionné ce qui, selon nous, conviendra au plus grand nombre de profils de pilotes.

Par rapport au prototype Summum d'origine, nous avons apporté quelques modifications afin d'obtenir un ratio d'amortissement plus faible sur les premiers 50 % de la course pour un bon maintien ; à partir de ce point, nous avons augmenté le ratio pour réduire la progressivité et utiliser tout le débattement.

Nous avons conçu un flip chip sur la fixation inférieure de l'amortisseur qui modifie principalement la géométrie, mais aussi le point de départ du ratio d'amortissement et la progressivité de 1,5 %. C'est une petite modification, mais elle peut s'avérer intéressante pour adapter le vélo à différents goûts, terrains ou amortisseurs.

Vous trouverez ici les informations habituelles, puis le réglage «standard» comparé aux différents réglages du flip chip. Jaune = «standard», vert = -3.5 (position basse) et bleu = +3.5 (position haute).

Ressorts recommandés pour l'amortisseur arrière : M 450 lb/in, L 500 lb/in et XL 550 lb/in.





Toutes les informations et les photos figurant sur ce document sont fournies à titre informatif uniquement et ne constituent pas un contrat juridique entre Mondraker et toute personne ou organisme. Les spécifications, les géométries ou toute autre information technique publiée sont susceptibles de changer sans préavis.

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MANUALI E DOCUMENTI





## ISTRUZIONI GENERALI DI SICUREZZA

In questo manuale tecnico vengono utilizzati i seguenti 3 simboli. Questi simboli servono per prestare attenzione alle seguenti precauzioni:

### **PERICOLO:**

Non seguire le indicazioni o utilizzare la bicicletta in modo improprio poiché potrebbero causare lesioni gravi o letali. Queste mansioni comportano difficoltà tecniche e, se sono eseguite male, potrebbero danneggiare la bicicletta o comportare l'annullamento della garanzia.

### **ATTENZIONE!**

Non seguire le indicazioni o utilizzare la bicicletta in modo improprio può causare lesioni lievi. Queste mansioni comportano difficoltà tecniche e, se sono eseguite male, potrebbero danneggiare la bicicletta o comportare l'annullamento della garanzia.

### **INFORMAZIONI**

Informazioni indispensabili per una corretta esecuzione dei procedimenti per evitare eventuali danni della bicicletta o perdita della garanzia, ma che non comportano alcun rischio per la persona.

## ALTRE CONSIDERAZIONI

- L'uso di ricambi non originali può causare danni, malfunzionamenti e incidenti che possono portare a gravi conseguenze.
- Per eseguire i passaggi descritti in questo manuale, sono richieste competenze che vanno ben oltre le conoscenze di un'utilizzatore medio di bicicletta. Nel caso in cui non si è qualificati per seguire una delle seguenti indicazioni, si prega di portare la bicicletta presso un servizio tecnico autorizzato Mondraker per la manutenzione e la sostituzione dei suoi componenti. L'installazione errata dei pezzi di ricambio può causare malfunzionamenti, incidenti, lesioni e l'annullamento della garanzia.

## PULIZIA E CURA

- Non appena i pezzi sono stati smontati, si consiglia di pulire, ingrassare e mettere il frenafili (se necessario) sui componenti che verranno riutilizzati.

## LEGENDA DEI SIMBOLI



Fissatore per filettature di grado medio. Loctite 243 o simile.



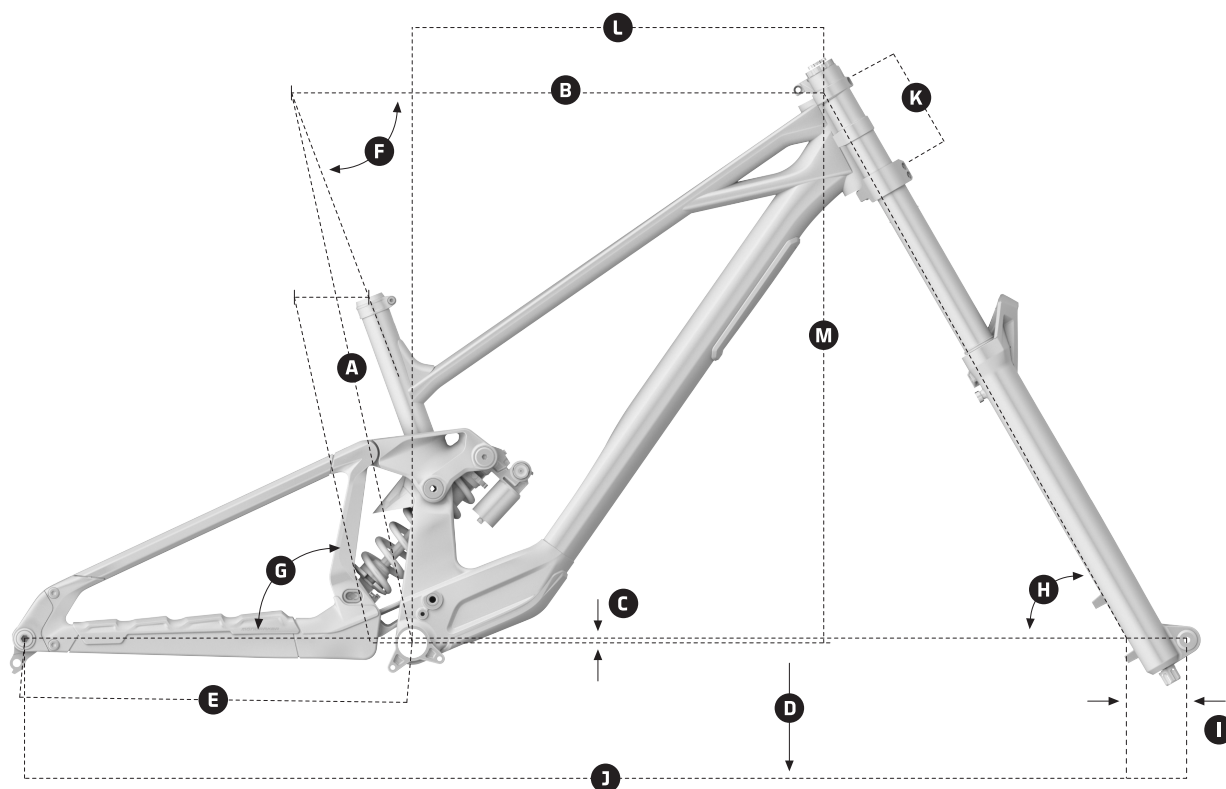
Grasso sintetico di qualità per il montaggio.



Grasso speciale carbonio per creare attriti.



## 1. GEOMETRIA



### SUMMUM

| DIMENSIONE DEL TELAIO                   | M [STD]   | L [STD]   | XL [STD]  |
|-----------------------------------------|-----------|-----------|-----------|
| <b>A</b> Lunghezza Piantone             | 400 mm    | 400 mm    | 400 mm    |
| <b>B</b> Lunghezza Tubo Orizz. Virtuale | 710 mm    | 740 mm    | 770 mm    |
| <b>C</b> BB Drop                        | -5 mm     | -5 mm     | -5 mm     |
| <b>D</b> Altezza movimento centrale     | 350 mm    | 350 mm    | 350 mm    |
| <b>E</b> Lunghezza Batticateni          | 455 mm    | 455 mm    | 455 mm    |
| <b>F</b> Angolo tubo sella              | 78°       | 78°       | 78°       |
| <b>G</b> Angolo Sella                   | 70°       | 70°       | 70°       |
| <b>H</b> Angolo Sterzo                  | 62,5°     | 62,5°     | 62,5°     |
| <b>I</b> Offset Forcella / Rake         | 52 mm     | 52 mm     | 52 mm     |
| <b>J</b> Interasse                      | 1285,4 mm | 1315,4 mm | 1345,4 mm |
| <b>K</b> Lunghezza Tubo Sterzo          | 120 mm    | 120 mm    | 120 mm    |
| <b>L</b> Reach                          | 450 mm    | 480 mm    | 510 mm    |
| <b>M</b> Stack                          | 642,6 mm  | 642,6 mm  | 642,6 mm  |

**REGOLAZIONE REACH TRAMITE CALOTTE** +/-5mm · **REGOLAZIONE LUNGHEZZA FODERI BASSI** +/-5mm · **REGOLAZIONE FLIP CHIP AMMORTIZZATORE** +/-5mm altezza movimento centrale, angoli 0,35°



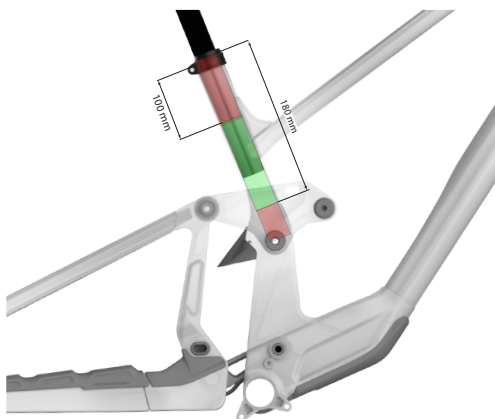
Visita <https://mondraker.com/wo/it/frameset-summum-rr-mullet> per configurare la tua geometria personalizzata e ottenere dati precisi in base alla posizione del flip chip, dei forcellini e delle calotte sterzo.



## 2. SPECIFICHE DEL TELAIO DELLA BICICLETTA

|                                                |                                                               |
|------------------------------------------------|---------------------------------------------------------------|
| <b>TAGLIE TELAIO</b>                           | M / L / XL                                                    |
| <b>DIMENSIONE RUOTA ANTERIORE</b>              | 29"                                                           |
| <b>MOZZO ANTERIORE</b>                         | 110mm x 20mm (BOOST)                                          |
| <b>DIMENSIONE RUOTA POSTERIORE</b>             | 27,5"                                                         |
| <b>MOZZO POSTERIORE</b>                        | 157mm x 12mm (DH)                                             |
| <b>ASSE POSTERIORE</b>                         | 12X157 P1.0 L183 (head 19mm OD)                               |
| <b>ATTACCHI PORTABORRACCE / RANGE EXTENDER</b> | 1                                                             |
| <b>MOVIMENTO CENTRALE</b>                      | BSA 83mm                                                      |
| <b>ESCURSIONE POSTERIORE</b>                   | 200mm                                                         |
| <b>AMMORTIZZATORI POSTERIORI</b>               | 225 x 75mm TRUNNION, 30 x 8mm                                 |
| <b>ESCURSIONE ANTERIORE</b>                    | 200mm                                                         |
| <b>DIAMETRO REGGISELLA</b>                     | 31.6mm / 34.9mm                                               |
| <b>LINEA CATENA</b>                            | 57mm                                                          |
| <b>STERZO</b>                                  | Onoff DH ARS (Adjustable Reach System) 1-1/8", 1-1/8"         |
| <b>DIMENSIONE CORONA MASSIMA</b>               | 36T                                                           |
| <b>FRENO POSTERIORE</b>                        | POST MOUNT CUSTOM ADAPTER, DIRECT 200 (220mm max with spacer) |
| <b>DIMENSIONE MASSIMA RUOTA COMPATIBILE</b>    | 27'5x2.6                                                      |

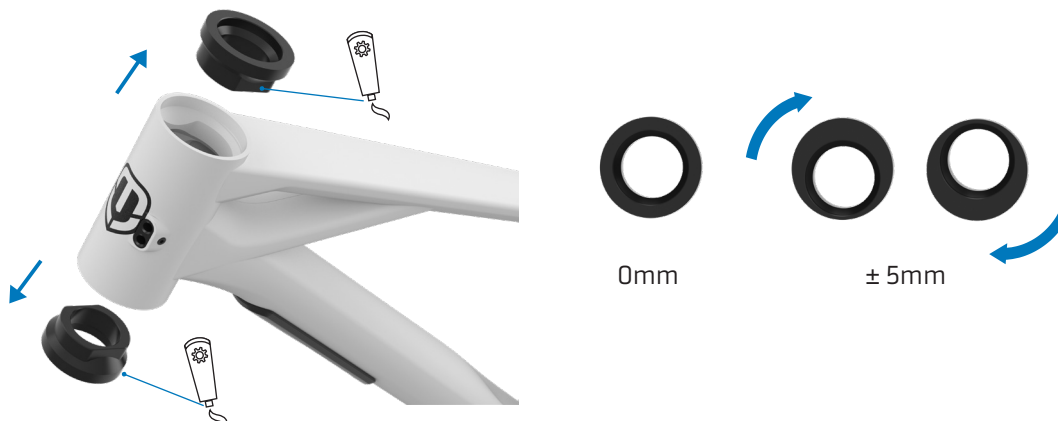
## 3. PROFONDITÀ INSERIMENTO REGGISELLA



| TAGLIA TELAIO | MIN. (mm) | MAX. (mm) |
|---------------|-----------|-----------|
| <b>XL</b>     | 100       | 175       |
| <b>L</b>      | 100       | 175       |
| <b>M</b>      | 100       | 175       |



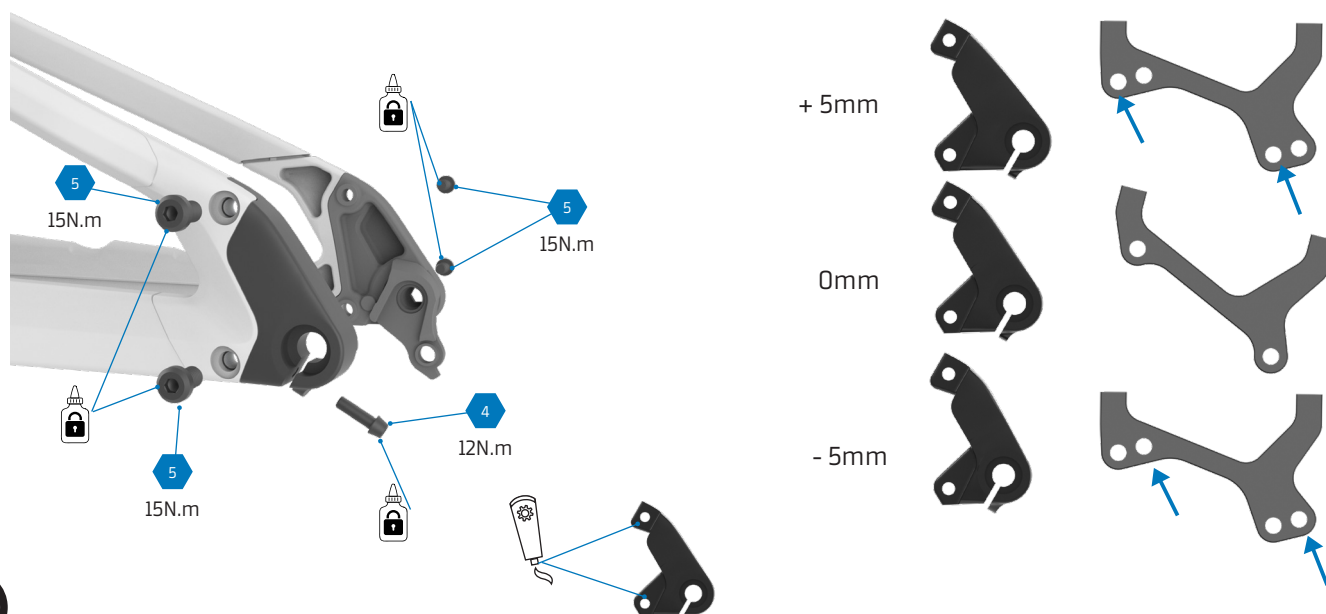
## 4. CALOTTE SERIE STERZO



Le calotte della serie sterzo superiore e inferiore devono essere sempre installate con lo stesso orientamento della loro eccentricità. L'utilizzo di queste calotte permette di modificare la lunghezza del reach.

Per regolare l'angolo di sterzo, deve essere utilizzato il sistema flip chip del telaio. Ricordate di applicare un leggero strato di grasso di montaggio sulle superfici di contatto prima dell'installazione.

## 5. FORCELLINI



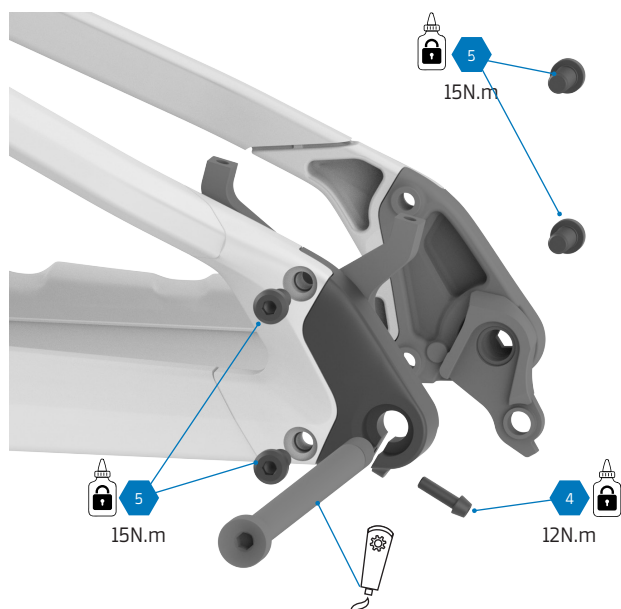
La bicicletta viene fornita di serie con forcellini standard. Se si installano forcellini di dimensioni maggiori o minori, **è indispensabile sostituire anche il supporto della pinza freno**. L'adattatore standard è compatibile solo con i forcellini di serie.



Visita <https://mondraker.com/wo/it/frameset-summum-rr-mullet> per configurare la tua geometria personalizzata e ottenere dati precisi in base alla posizione del flip chip, dei forcellini e delle calotte sterzo.

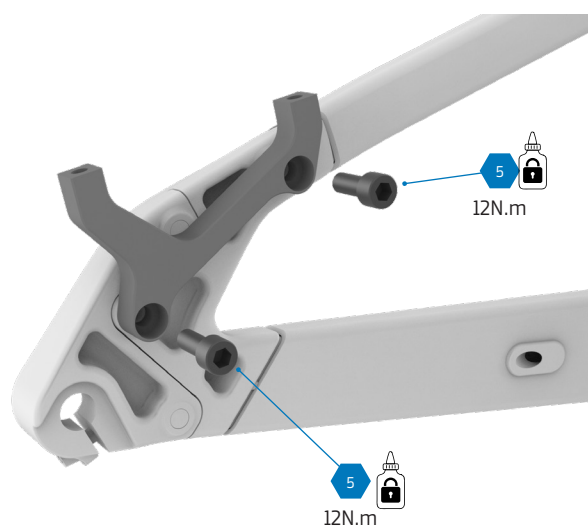


## 6. INSERIRE IL PERNO RUOTA POSTERIORE



1. Allentare leggermente le viti dei forcellini (circa 3/4 di giro) e allentare la vite di bloccaggio.
2. Inserire il perno e serrare alla coppia di serraggio specificata.
3. Serrare le viti dei forcellini alla coppia di serraggio specificata.
4. Serrare la vite di bloccaggio alla coppia di serraggio specificata.

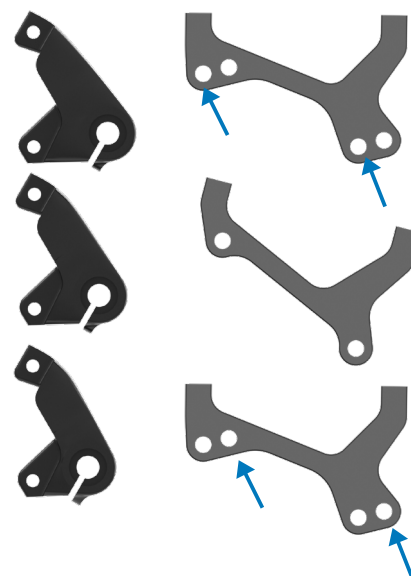
## 7. ADATTATORE FRENO



+ 5mm

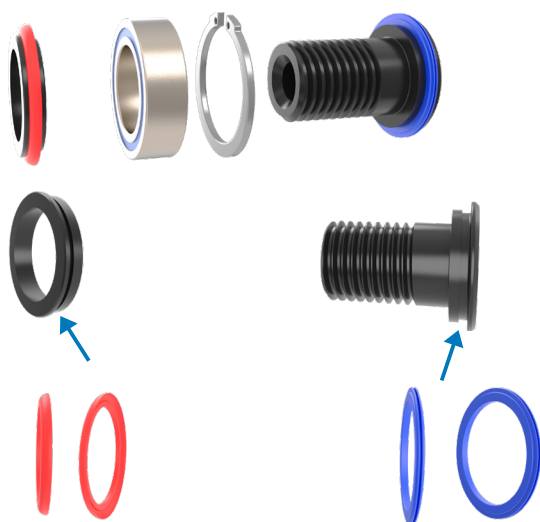
0mm

- 5mm



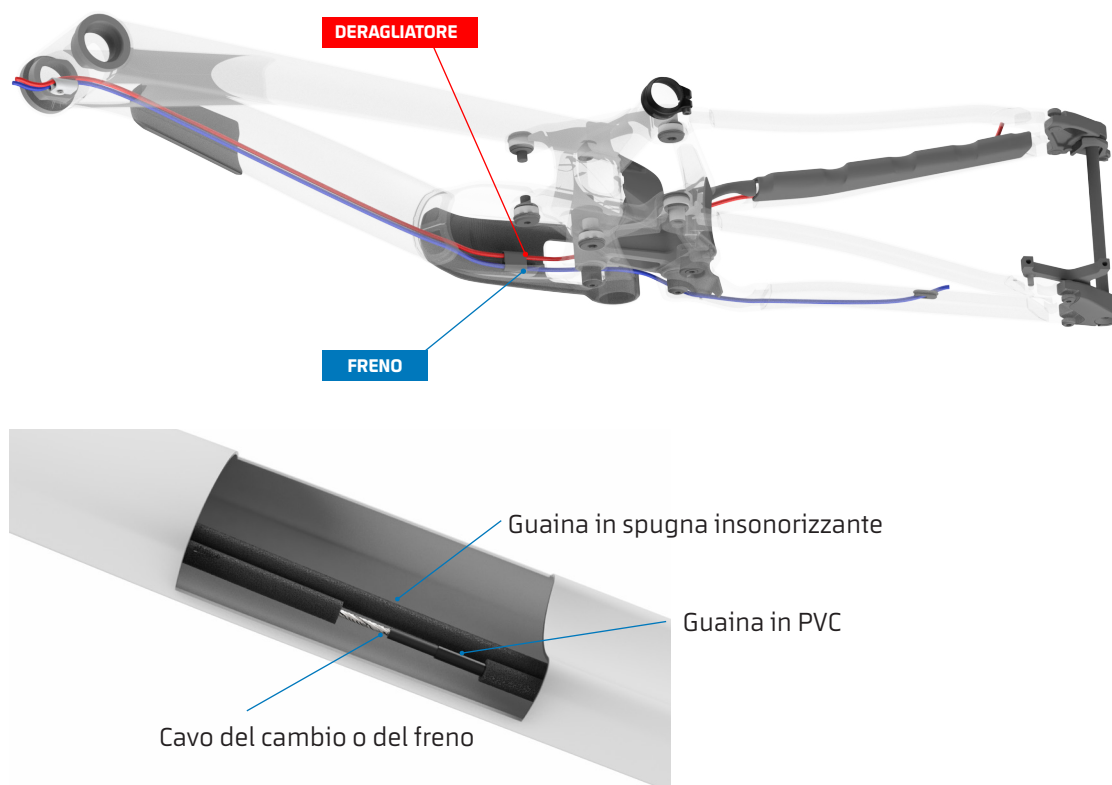
Visita <https://mondraiker.com/wo/it/frameset-summum-rr-mullet> per configurare la tua geometria personalizzata e ottenere dati precisi in base alla posizione del flip chip, dei forcellini e delle calotte sterzo.

## 8. GUARNIZIONI IN GOMMA

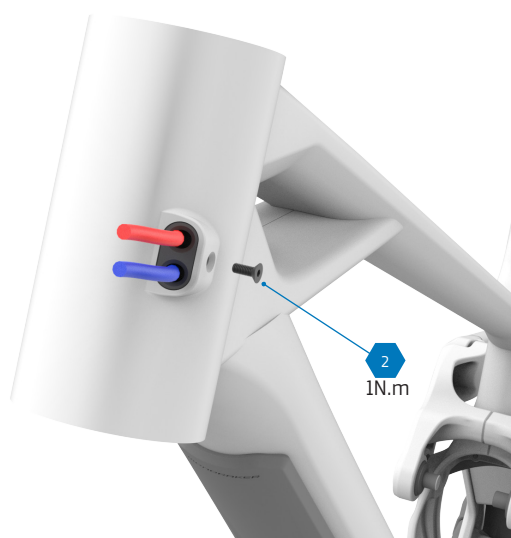


Presti attenzione alla posizione e alla forma delle guarnizioni in gomma. Sono stati utilizzati i colori rosso e blu per differenziarli, ma in realtà le guarnizioni in gomma sono nere.

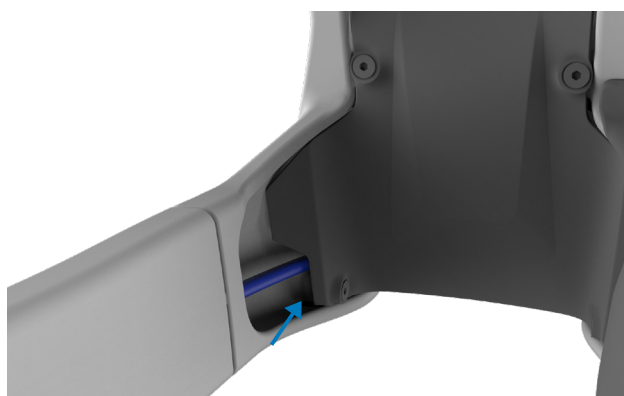
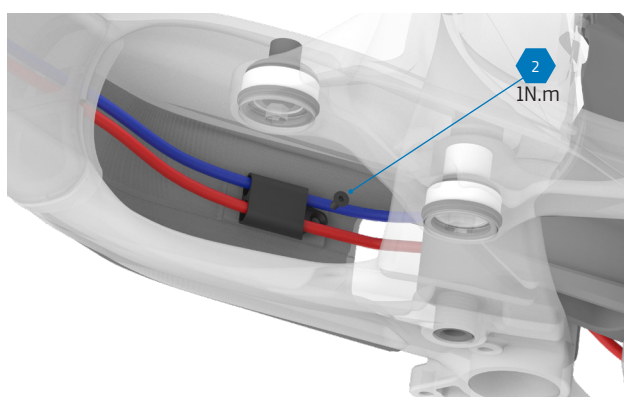
## 9. PASSAGGIO CAVI INTERNO



## 9. PASSAGGIO CAVI INTERNO



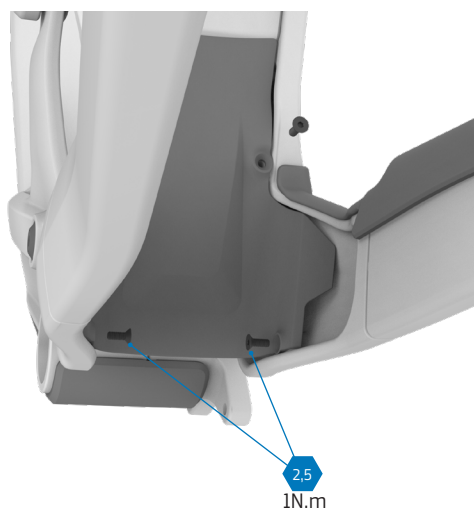
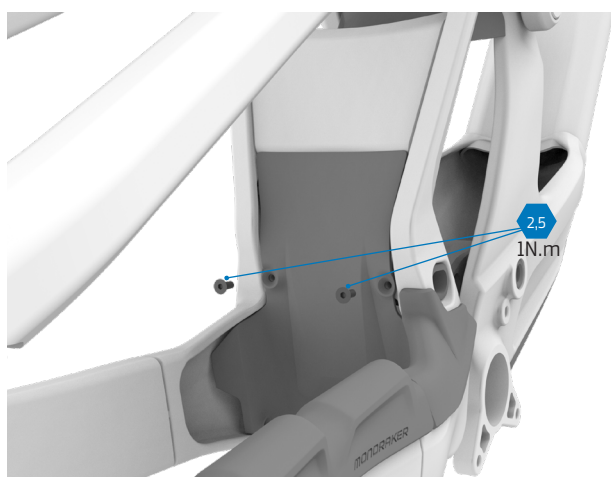
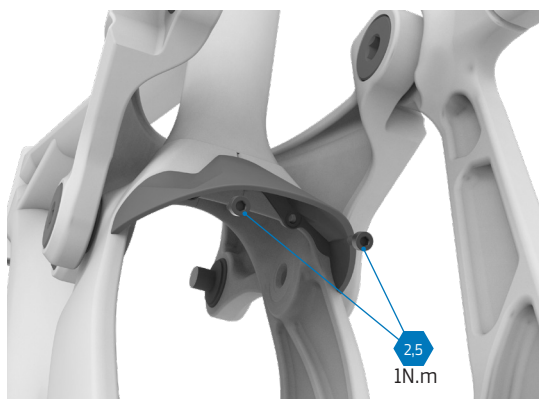
Il passacavo viene fissato al telaio tramite la vite.



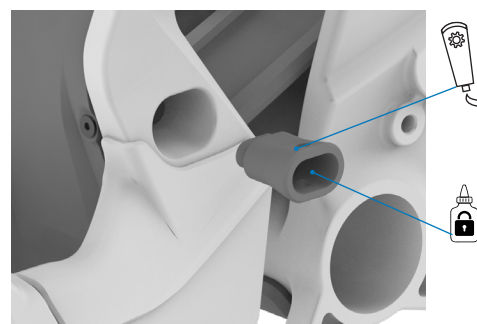
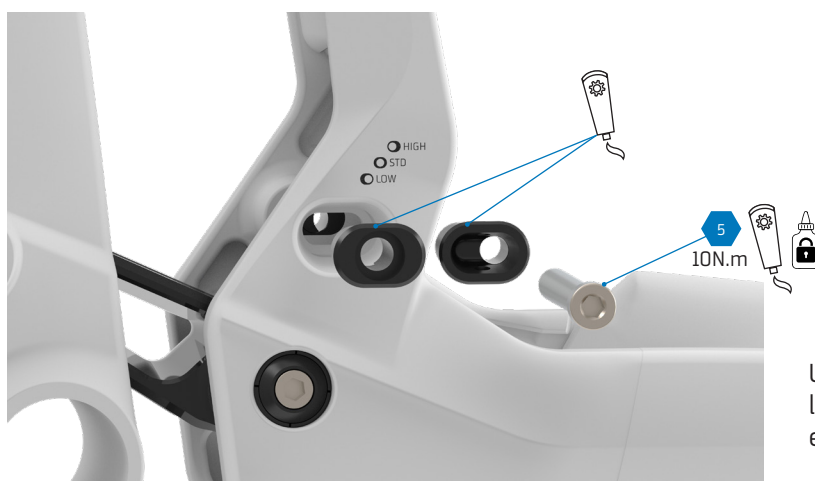
Utilizzare l'apertura per far passare il cavo nel fodero basso.



## 10. DEFLETTORI



## 11. FLIP CHIP DEL PERNO DELL'AMMORTIZZATORE



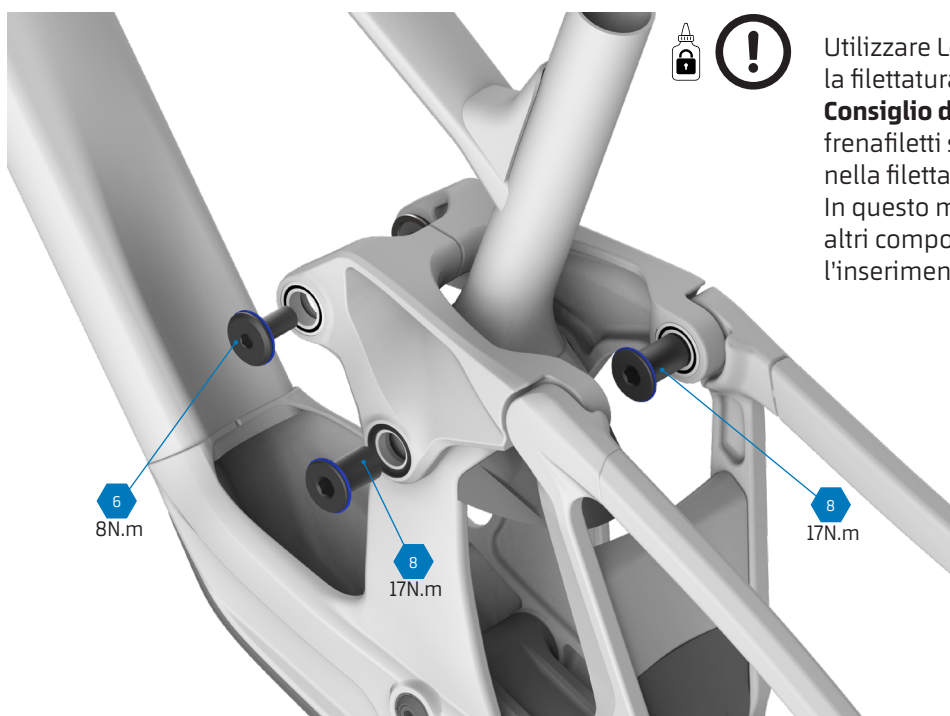
Utilizzare Loctite 243 (o un frenafili simile) per la filettatura e grasso di montaggio per le superfici esterne del flip chip.



Visita <https://mondraiker.com/wo/it/frameset-summum-rr-mullet> per configurare la tua geometria personalizzata e ottenere dati precisi in base alla posizione del flip chip, dei forcellini e delle calotte sterzo.

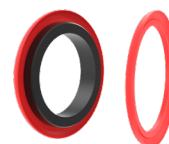
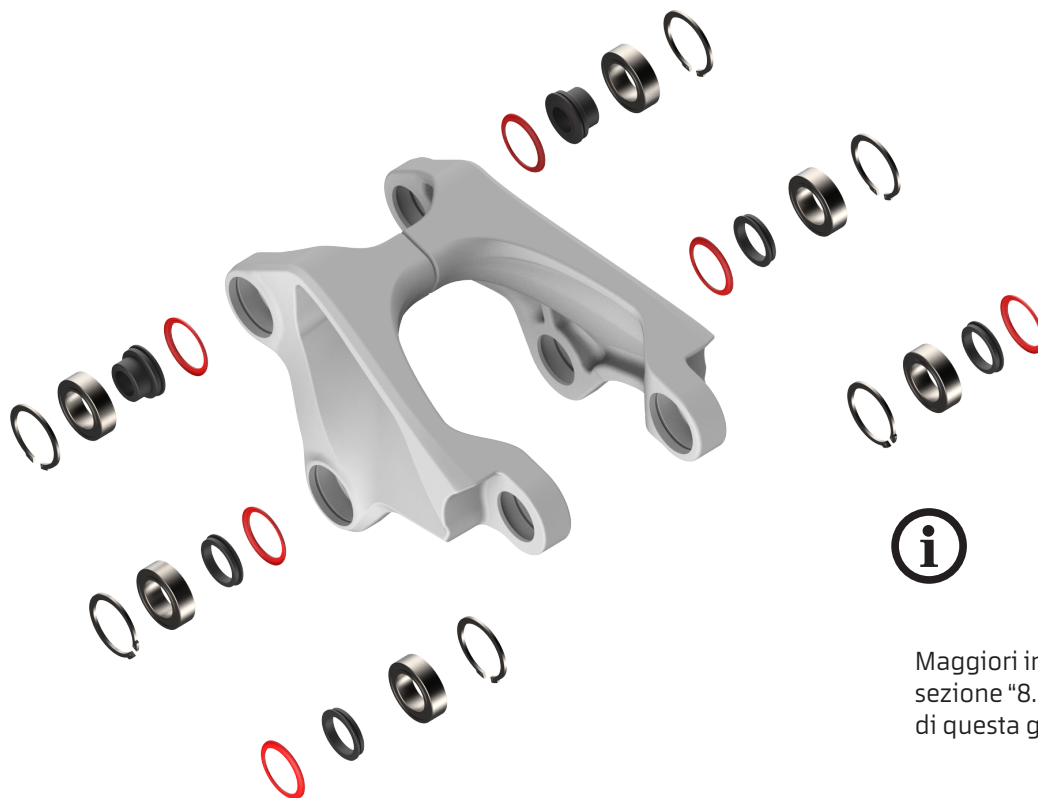
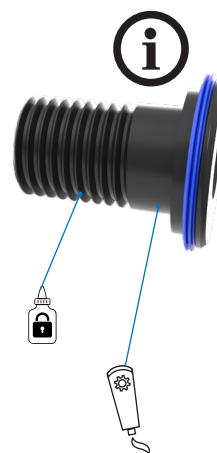


## 11. LINK SUPERIORE



Utilizzare Loctite 243 (o un frenafili simile) per la filettatura.

**Consiglio da Pro:** Invece di applicare il frenafili sulla vite, puoi metterlo direttamente nella filettatura interna del telaio della bicicletta. In questo modo si evita di contaminare gli altri componenti con il frenafili durante l'inserimento della vite.



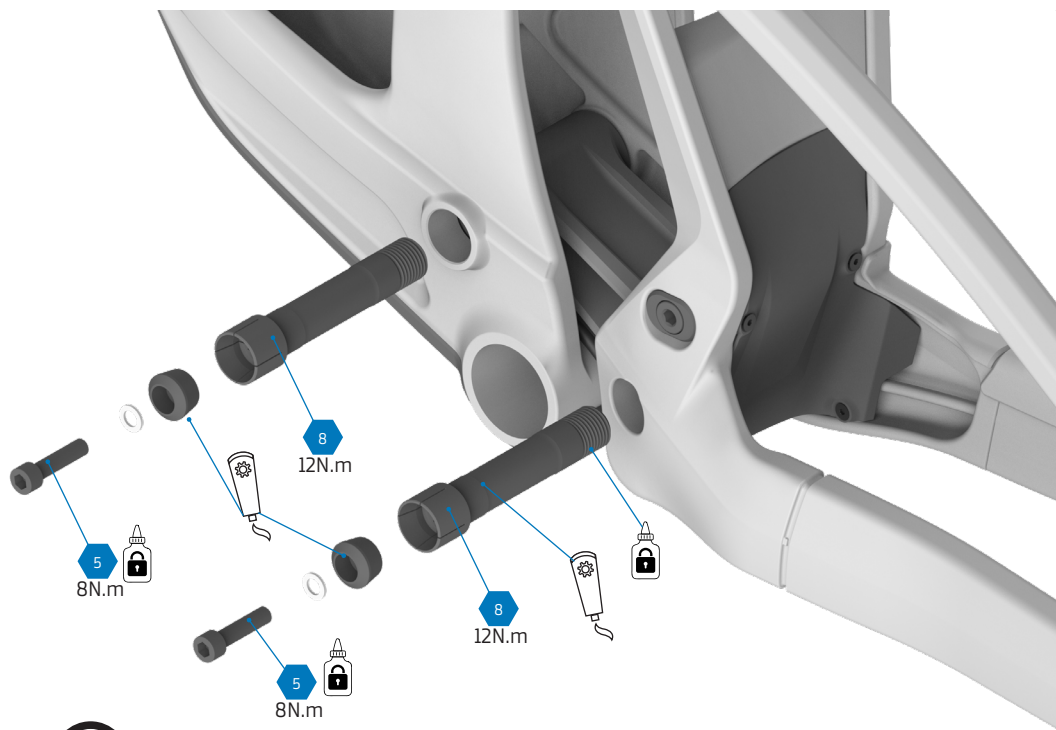
Maggiori informazioni: Consulta la sezione "8. GUARNIZIONI IN GOMMA" di questa guida.



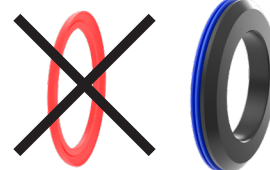
Utilizzare grasso di montaggio per assemblare i componenti.



## 12. LINK INFERIORE



Utilizzare Loctite 243 (o un frenafili simile) per la filettatura.



Utilizzare grasso di montaggio per assemblare i componenti.



### 13. ATTACCO MANUBRIO



+5 mm piastra distanziale



+5 mm piastra distanziale



M6 X 50 (x2)



M6 X 40 (x2)



M6 X 30 (x2)



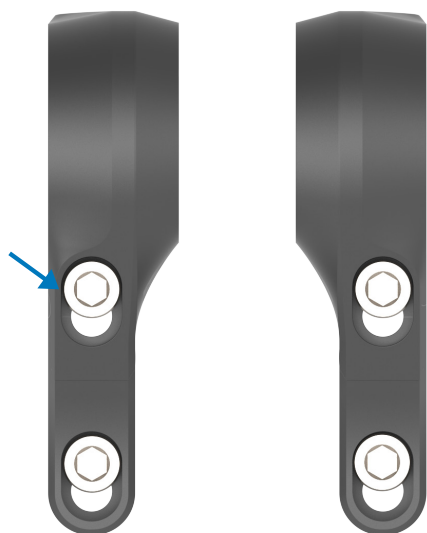
M6 X 20 (x4)



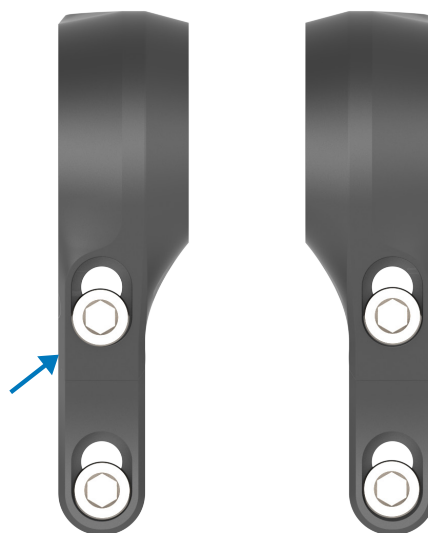
Serrare tutte le viti a 6 Nm.



### 13. ATTACCO MANUBRIO



Attacco manubrio da 45 mm.



Attacco manubrio da 50 mm.

### REGOLAZIONE DEL MANUBRIO



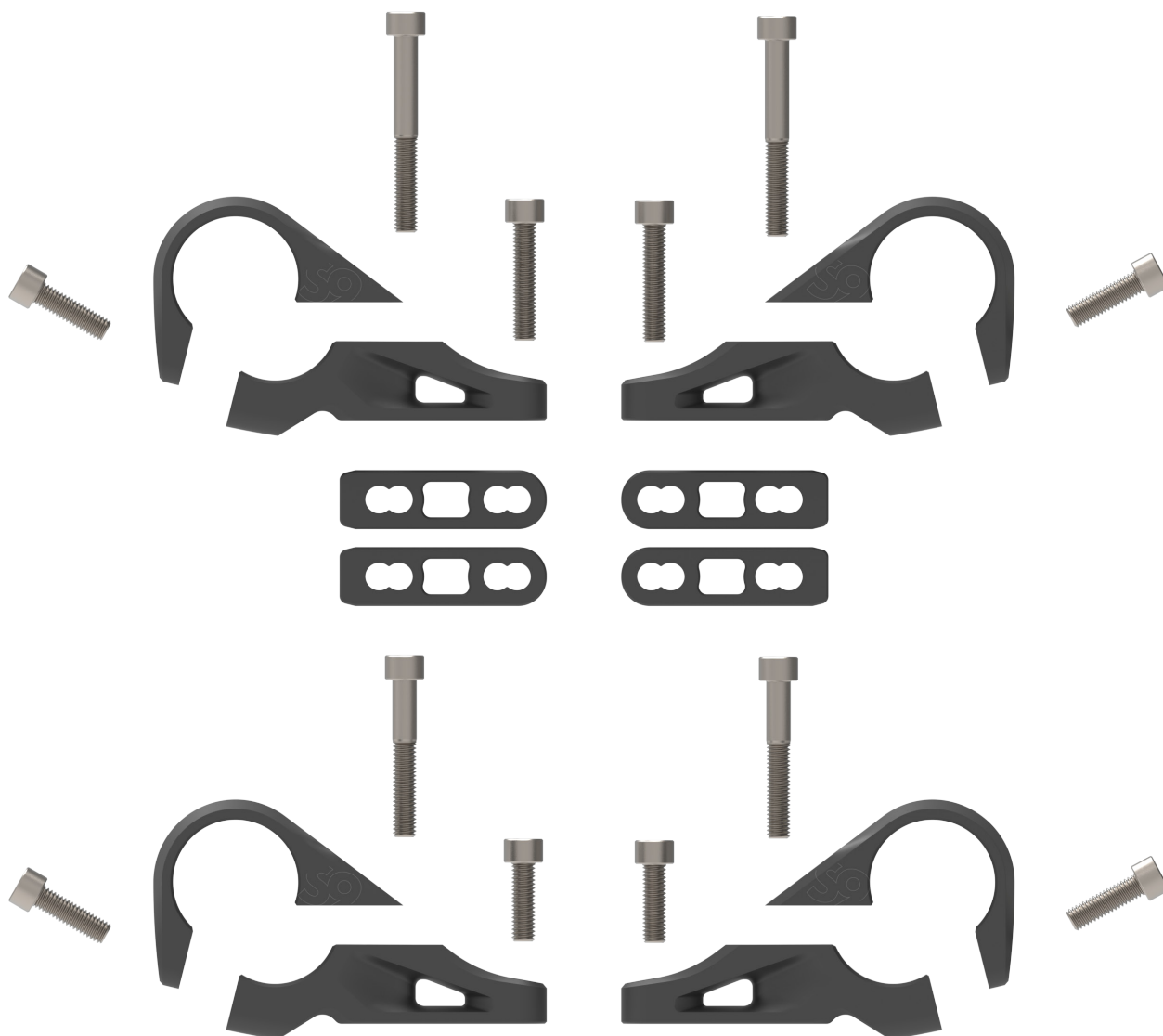
Posizione comoda.



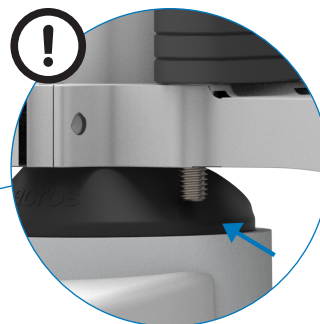
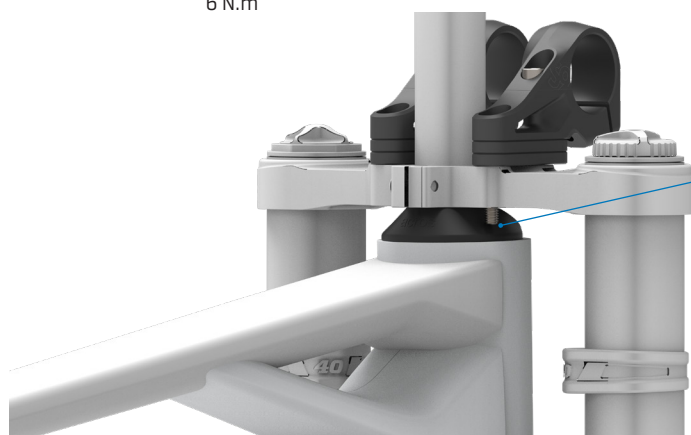
Posizione stabile.



### 13. ATTACCO MANUBRIO



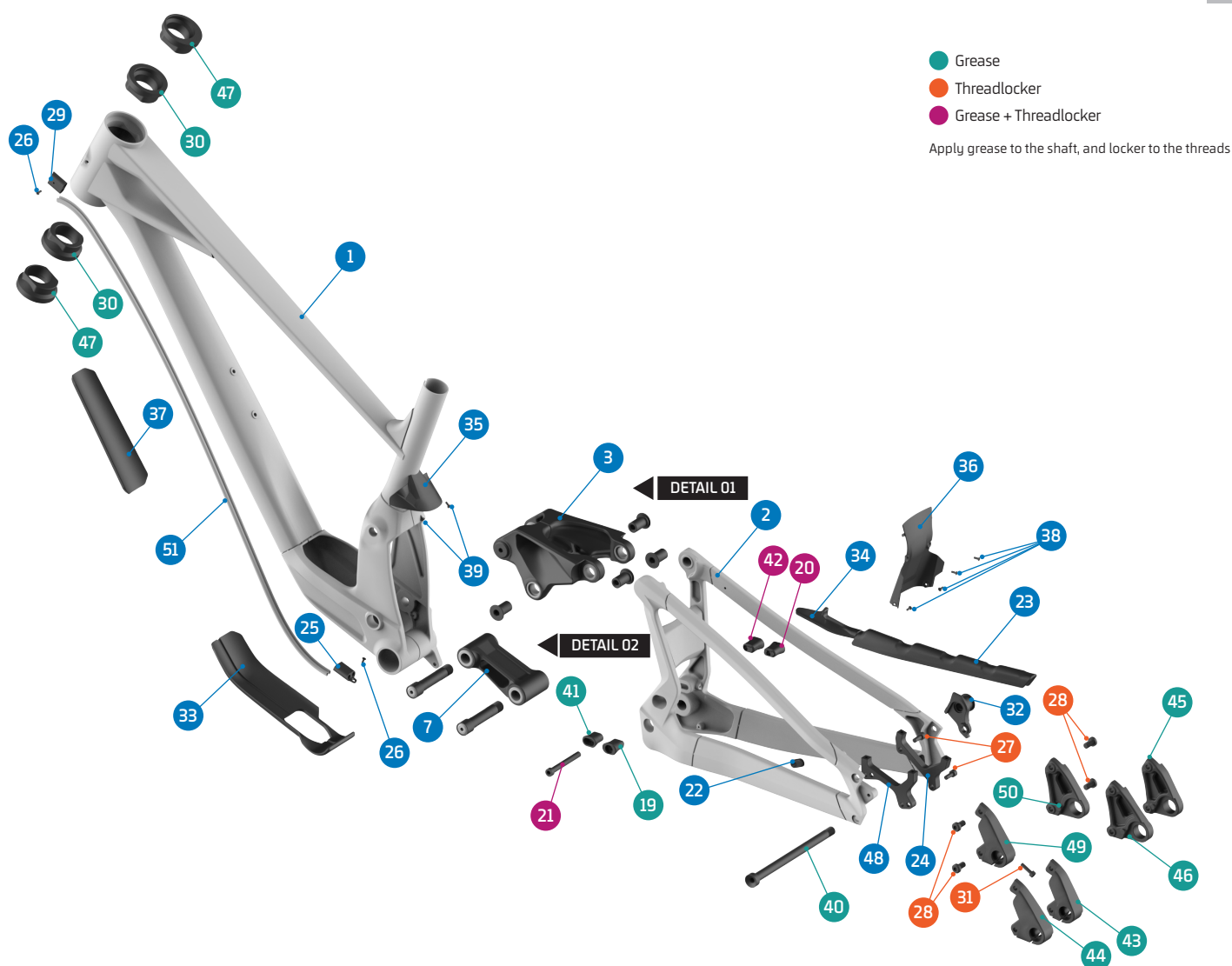
5  
6 N.m



Assicurati che le viti siano sufficientemente lunghe da avvitarsi completamente. L'uso di una vite troppo lunga rischia di danneggiare il coperchio della serie sterzo.



## 14. SPARE PARTS



| ITEM No. | DESCRIPTION                      | QTY. | PART NUMBER                        | TORQUE |
|----------|----------------------------------|------|------------------------------------|--------|
| 1        | FRAME                            | 1    |                                    |        |
| 2        | REAR TRIANGLE                    | 1    |                                    |        |
| 3        | UPPER LINK                       | 1    | Refer to B2B web for color options |        |
| 4        | PIVOT AXLE, M15                  | 4    | SET 3                              | 17Nm   |
| 5        | SHOCK BOLT                       | 2    | SET 2                              | 8Nm    |
| 6        | BEARING, 24x15x7 3802V-2RS       | 10   | SET 1 / 099.00113                  |        |
| 7        | LOWER LINK                       | 1    | 099.26072                          |        |
| 8        | C-RING                           | 6    | SET 2 & 3                          |        |
| 9        | SPACER, 10x17x6                  | 2    | SET 2                              |        |
| 10       | PIVOT SEAL, EXTERNAL             | 10   | SET 2,3,4 & 9                      |        |
| 11       | PIVOT SEAL, INTERNAL             | 6    | SET 2, 3 & 9                       |        |
| 12       | PIVOT WASHER                     | 4    | SET 3                              |        |
| 13       | PIVOT AXLE, 88L                  | 2    | SET 4                              | 12Nm   |
| 14       | SPACER, 38L                      | 2    | SET 4                              |        |
| 15       | WASHER, 6x10x1t                  | 2    | SET 4                              |        |
| 16       | TAPER NUT                        | 2    | SET 4                              |        |
| 17       | SCREW BOLT, M6x25                | 2    | SET 4                              | 8Nm    |
| 18       | SPACER, LOWER                    | 4    | SET 4                              |        |
| 19       | SHOCK FLIPCHIP CENTER            | 1    | 099.26073                          |        |
| 20       | SHOCK FLIPCHIP DRIVE SIDE CENTER | 1    | 099.26074                          |        |
| 21       | SHOCK BOLT, 65L                  | 1    | SET 2 / 099.25038                  | 10Nm   |
| 22       | CABLE RUBBER                     | 1    | 989.13010                          |        |
| 23       | CHAINSTAY PROTECTOR              | 1    | 099.25016                          |        |
| 24       | DISC MOUNT                       | 1    | SET 5                              |        |
| 25       | CABLE GUIDE                      | 1    | 099.22017                          |        |
| 26       | SCREW BOLT, M3x8                 | 2    | 099.20068                          | 1Nm    |

| ITEM No. | DESCRIPTION                        | QTY. | PART NUMBER  | TORQUE |
|----------|------------------------------------|------|--------------|--------|
| 27       | SCREW BOLT, M6x15                  | 2    | SET 5        | 12Nm   |
| 28       | SCREW BOLT, M8x15                  | 4    | 099.26085    | 15Nm   |
| 29       | CABLE GUIDE HEAD SET               | 1    | 099.22018    |        |
| 30       | HEADSET CUP CENTER                 | 2    | 099.26075    |        |
| 31       | SCREW BOLT, M5x18                  | 1    | SET 6, 7 & 8 | 12Nm   |
| 32       | HANGER                             | 1    | SRAM UDH     |        |
| 33       | BOTTOM BRACKET PROTECTOR           | 1    | 099.26076    |        |
| 34       | YOKE PROTECTOR                     | 1    | 099.26077    |        |
| 35       | FT SHOCK FENDER                    | 1    | 099.26078    |        |
| 36       | RT SHOCK FENDER                    | 1    | 099.26079    |        |
| 37       | DOWN TUBE PROTECTOR                | 1    | 099.26080    |        |
| 38       | SCREW BOLT, M3x8                   | 4    | 099.20068    | 2Nm    |
| 39       | SCREW BOLT, M3x6                   | 2    | 099.12116    | 2Nm    |
| 40       | SUMMUM 26 WHEEL AXLE               | 1    | 099.26081    | 12Nm   |
| 41       | SHOCK FLIPCHIP HIGH/LOW            | 1    | 099.26082    |        |
| 42       | SHOCK FLIPCHIP DRIVE SIDE HIGH/LOW | 1    | 099.26083    |        |
| 43       | DROPOUT -5                         | 1    | SET 7        |        |
| 44       | DROPOUT +5                         | 1    | SET 8        |        |
| 45       | DROPOUT -5 DRIVE SIDE              | 1    | SET 7        |        |
| 46       | DROPOUT +5 DRIVE SIDE              | 1    | SET 8        |        |
| 47       | HEADSET CUP +/- 5                  | 2    | 099.26084    |        |
| 48       | DISC MOUNT +/-5                    | 1    | 099.26086    |        |
| 49       | DROPOUT STANDARD                   | 1    | SET 6        |        |
| 50       | DROPOUT STANDARD DRIVE SIDE        | 1    | SET 6        |        |
| 51       | INTERNAL CABLE GUIDE               | 1    | 099.21010P   |        |

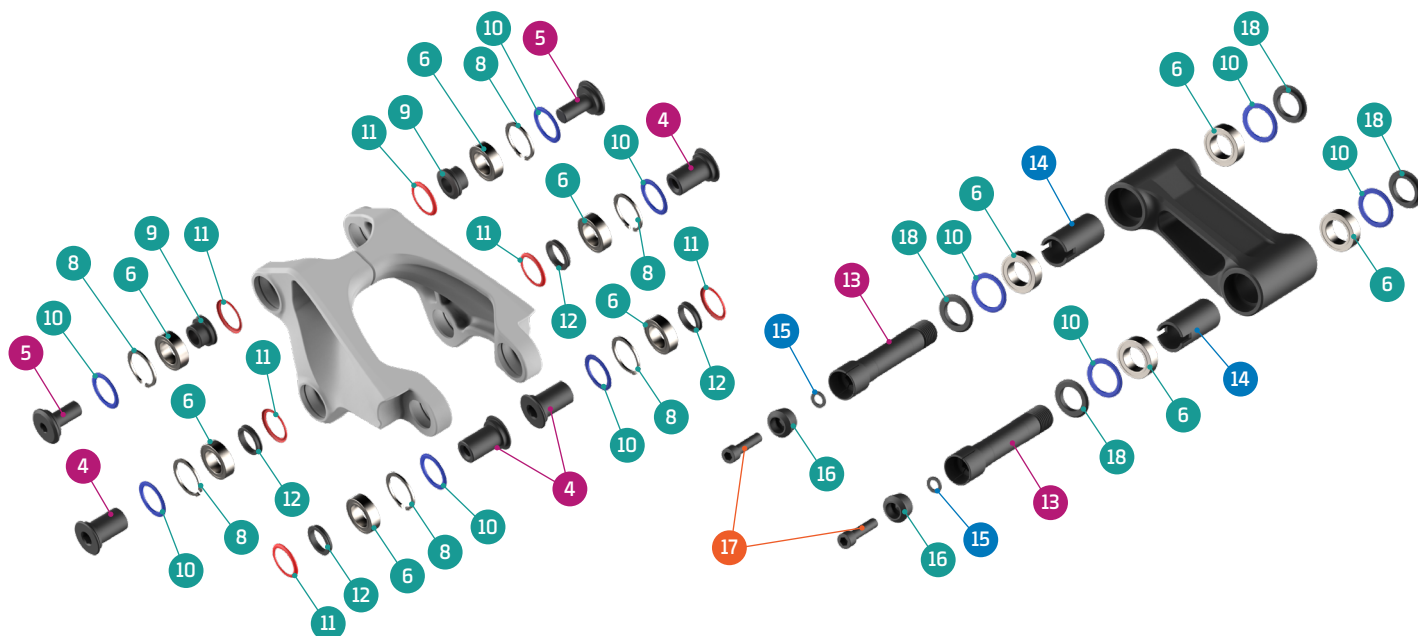


## 14. SPARE PARTS



DETAIL 01

DETAIL 02



SET 6

NEUTRAL DROPOUTS KIT



SET 7

MINUS 5 DROPOUTS KIT



SET 8

PLUS 5 DROPOUTS KIT



SET 9

SEALS KIT



SET 1

ZERO BEARING KIT 25



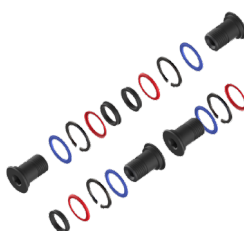
SET 2

SHOCK HARDWARE KIT 24



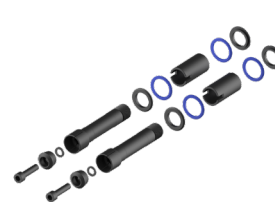
SET 3

UPPER LINK KIT 34



SET 4

DISC ADAPTOR KIT



SET 5

DISC ADAPTOR KIT



| PART NUMBER | DESCRIPTION                  | COMPONENTS                                                                                                                                      |
|-------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 099.22100   | SET 1: ZERO BEARING KIT 25   | BEARING 3802-2RS, 24x15x7 (x10)                                                                                                                 |
| 099.26202   | SET 2: SHOCK HARDWARE KIT 24 | PIVOT SEAL INTERNAL (x2) / PIVOT SEAL EXTERNAL (x2) / C-RING (x2) / SPACER, 10x17x6 (x2) / SHOCK BOLT (x2) / SHOCK BOLT, 65 (x1)                |
| 099.26300   | SET 3: UPPER LINK KIT 34     | PIVOT WASHER (x4) / PIVOT SEAL INTERNAL (x4) / PIVOT SEAL EXTERNAL (x4) / PIVOT AXLE, M15 (x4) / C-RING (x4)                                    |
| 099.26401   | SET 4: LOWER LINK KIT 39     | PIVOT SEAL EXTERNAL (x4) / PIVOT AXLE 88L, (x2) / SCPACER, 38 (x2) / WASHER (x2) / TAPER NUT (x2) / SCREW BOLT, M6x25 (x2) / SCPACER LOWER (x4) |
| 099.25018   | SET 5: DISC ADAPTOR KIT      | DISC ADAPTOR (x1) / SCREW BOLT (x2)                                                                                                             |
| 099.26087   | SET 6: NEUTRAL DROPOUTS KIT  | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT STANDARD (x1) / DROPOUT STANDARD DRIVE SIDE (x1)                                                      |
| 099.26088   | SET 7: MINUS 5 DROPOUTS KIT  | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT -5 (x1) / DROPOUT -5 DRIVE SIDE (x1)                                                                  |
| 099.26089   | SET 8: PLUS 5 DROPOUTS KIT   | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT +5 (x1) / DROPOUT +5 DRIVE SIDE (x1)                                                                  |
| 099.26062   | SET 9: SEALS KIT             | PIVOT SEAL INTERNAL (x8) / PIVOT SEAL EXTERNAL (x10)                                                                                            |



## 15. CINEMATICA

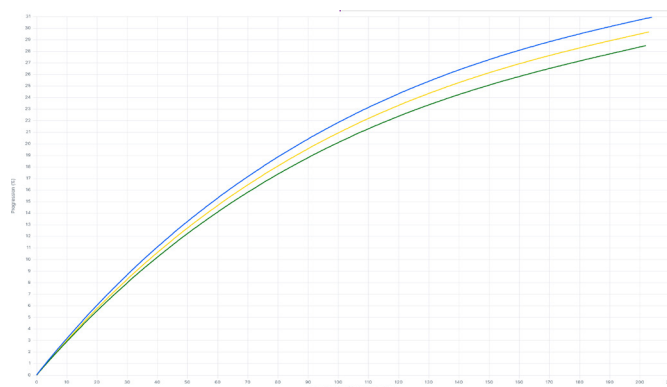
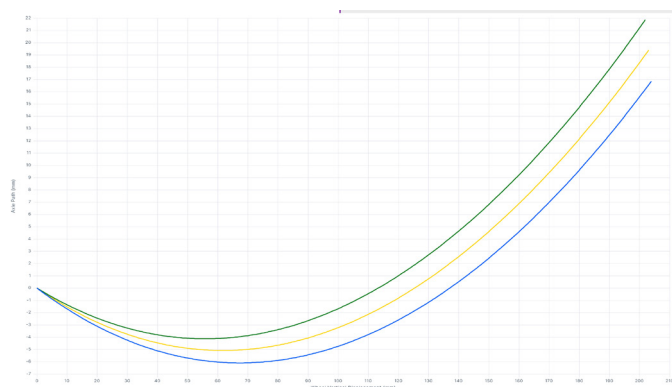
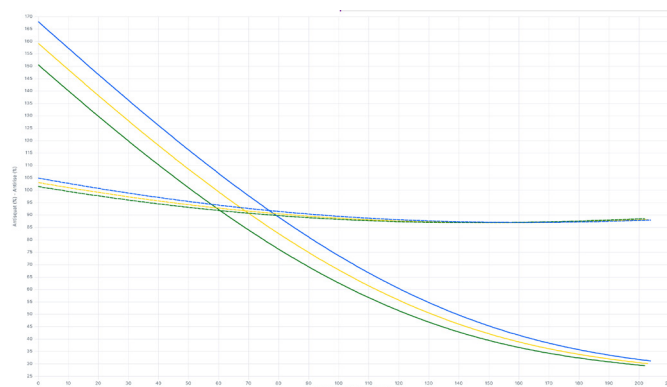
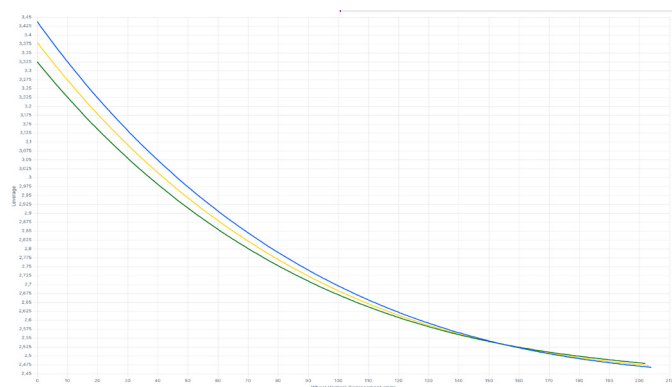
La cinematica del nuovo Summum, così come la sua geometria, si basano in gran parte sullo sviluppo portato avanti da MFR sul prototipo Summum durante la stagione, tenendo sempre presente che il bacino d'utenza sarà molto più ampio. Dal vasto range di regolazioni del prototipo Summum, abbiamo selezionato quelle che riteniamo si adatteranno a un maggior numero di profili di rider.

Rispetto al prototipo originale Summum, abbiamo apportato alcune modifiche per ottenere un rapporto di leva inferiore nel primo 50% della corsa, alla ricerca di un buon supporto; da quel punto in poi abbiamo aumentato il rapporto per ridurre la progressività e sfruttare tutta l'escursione.

Abbiamo progettato un flip chip nel supporto inferiore dell'ammortizzatore che modifica principalmente la geometria, ma anche il punto di inizio del rapporto di leva e la progressività dell'1,5%. È una piccola modifica, ma può risultare molto interessante per adattare la bici a diversi gusti, terreni o ammortizzatori.

Qui troverete le consuete informazioni e a seguire il setup "standard" confrontato con le diverse impostazioni del flip chip. Giallo = "standard", verde = -3.5 (posizione bassa) e blu = +3.5 (posizione alta).

Molle consigliate per l'ammortizzatore posteriore: M 450 lb/in, L 500 lb/in e XL 550 lb/in.





Tutte le informazioni e le immagini contenute in questo documento sono fornite esclusivamente a titolo informativo e non costituiscono un contratto legale tra MONDRAKER e qualsiasi persona o entità. Le specifiche, le geometrie o qualsiasi altra informazione tecnica qui pubblicata sono soggette a modifiche senza preavviso.

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MANUALES Y DOCUMENTOS





## INSTRUCCIONES GENERALES Y DE SEGURIDAD

En esta guía técnica pueden aparecer los 3 iconos siguientes. Cada uno de ellos indica que deben tomarse las siguientes precauciones:

### **ADVERTENCIA:**

No seguir las indicaciones o usar la bicicleta de forma inadecuada puede ocasionar graves lesiones o incluso la muerte. Estas tareas entrañan dificultad técnica y, si no se realizan de forma adecuada, podrían causar daños a tu bicicleta o dar lugar a la anulación de la garantía.

### **CUIDADO:**

No seguir las indicaciones o usar la bicicleta de forma inadecuada puede ocasionar lesiones leves. Estas tareas entrañan dificultad técnica y, si no se realizan de forma adecuada, podrían causar daños a tu bicicleta o dar lugar a la anulación de la garantía.

### **INFORMACIÓN**

Información imprescindible para realizar esta tarea correctamente y, así, evitar que se cause cualquier daño a la bicicleta o se pierda la garantía, pero que no supone ningún riesgo para las personas.

## OTRAS CONSIDERACIONES

- El uso de piezas de repuesto no originales puede ocasionar daños, fallos de funcionamiento y accidentes que pueden tener graves consecuencias.
- Para realizar algunos de los pasos descritos en este manual se requieren habilidades superiores a las del usuario medio de bicicleta. En caso de no poder seguir alguno de estos pasos, lleva tu bicicleta a un servicio técnico autorizado Mondraker para el mantenimiento y sustitución de sus componentes. La instalación incorrecta de piezas de repuesto puede ocasionar fallos de funcionamiento, accidentes, lesiones y la anulación de la garantía.

## LIMPIEZA Y CUIDADO

- Una vez desmontadas las piezas, se recomienda limpiar, engrasar y poner fijador de roscas (en caso necesario) en los componentes que se vayan a reutilizar.

## LEYENDA DE SÍMBOLOS



Fijador de roscas grado medio. Loctite 243 o similar.



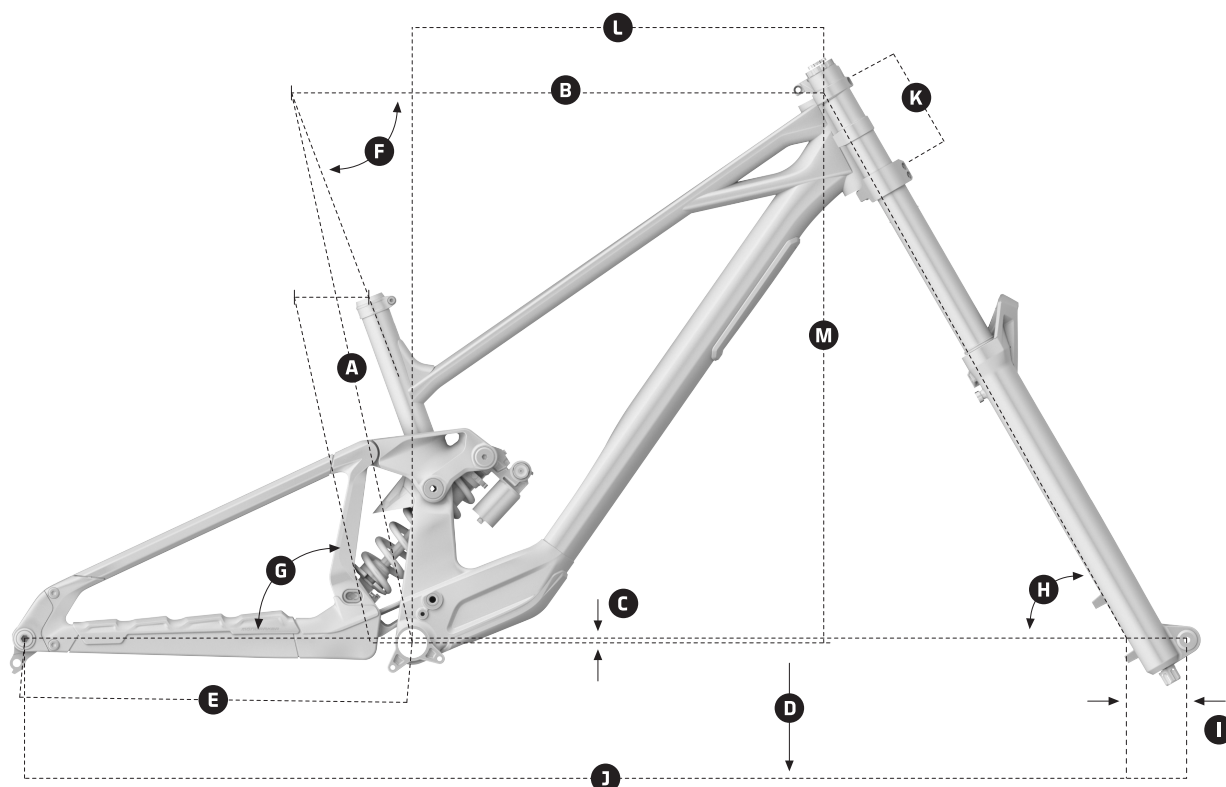
Grasa sintética de calidad para montaje.



Grasa especial de fricción para carbono.



## 1. GEOMETRÍA



### SUMMUM

| TALLA DE CUADRO               | M [STD]   | L [STD]   | XL [STD]  |
|-------------------------------|-----------|-----------|-----------|
| A Longitud tubo sillín        | 400 mm    | 400 mm    | 400 mm    |
| B Longitud tubo superior      | 710 mm    | 740 mm    | 770 mm    |
| C Caída eje pedalier          | -5 mm     | -5 mm     | -5 mm     |
| D Altura eje pedalier         | 350 mm    | 350 mm    | 350 mm    |
| E Longitud vainas             | 455 mm    | 455 mm    | 455 mm    |
| F Ángulo tubo sillín real     | 78°       | 78°       | 78°       |
| G Ángulo tubo sillín efectivo | 70°       | 70°       | 70°       |
| H Ángulo dirección            | 62,5°     | 62,5°     | 62,5°     |
| I Offset de la horquilla      | 52 mm     | 52 mm     | 52 mm     |
| J Distancia entre ejes        | 1285,4 mm | 1315,4 mm | 1345,4 mm |
| K Longitud pipa               | 120 mm    | 120 mm    | 120 mm    |
| L Reach                       | 450 mm    | 480 mm    | 510 mm    |
| M Stack                       | 642,6 mm  | 642,6 mm  | 642,6 mm  |

**CAZOLETAS** +/-5mm de reach **PUNTERAS** +/-5mm de longitud de vainas **SHOCK FLIP CHIP** +/-5mm altura pedalier, 0,35° dirección



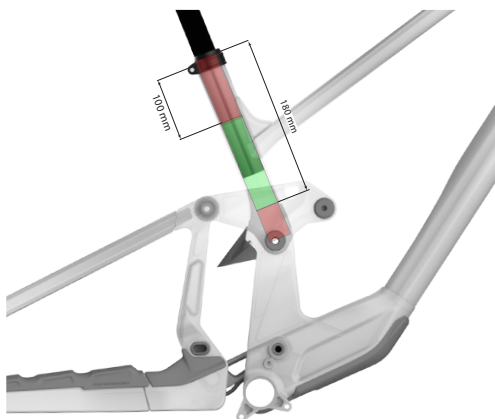
Visita <https://mondraaker.com/wo/es/frameset-summum-rr-mullet> para configurar tu geometría personalizada y obtener los datos precisos según la posición del flip chip, las punteras y las cazoletas.



## 2. ESPECIFICACIONES TÉCNICAS DEL CUADRO

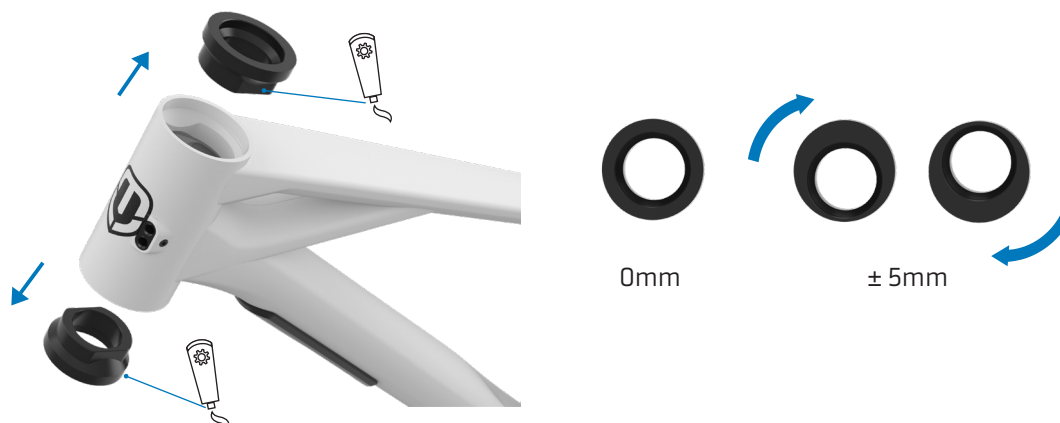
|                                                    |                                                               |
|----------------------------------------------------|---------------------------------------------------------------|
| <b>TALLAS DE CUADRO</b>                            | M / L / XL                                                    |
| <b>TAMAÑO RUEDA DELANTERA</b>                      | 29"                                                           |
| <b>BUJE DELANTERO</b>                              | 110mm x 20mm (BOOST)                                          |
| <b>TAMAÑO RUEDA TRASERA</b>                        | 27,5"                                                         |
| <b>BUJE TRASERO</b>                                | 157mm x 12mm (DH)                                             |
| <b>EJE TRASERO</b>                                 | 12X157 P1.0 L183 (head 19mm OD)                               |
| <b>CAPACIDAD TOTAL DE BIDONES / RANGE EXTENDER</b> | 1                                                             |
| <b>EJE PEDALIER</b>                                | BSA 83mm                                                      |
| <b>RECORRIDO TRASERO</b>                           | 200mm                                                         |
| <b>AMORTIGUADOR TRASERO</b>                        | 225 x 75mm TRUNNION, 30 x 8mm                                 |
| <b>RECORRIDO DE HORQUILLA</b>                      | 200mm                                                         |
| <b>DIÁMETRO DE TIJA</b>                            | 31.6mm / 34.9mm                                               |
| <b>LÍNEA DE CADENA</b>                             | 57mm                                                          |
| <b>DIRECCIÓN</b>                                   | Onoff DH ARS (Adjustable Reach System) 1-1/8", 1-1/8"         |
| <b>TAMAÑO MÁXIMO DE PLATO</b>                      | 36T                                                           |
| <b>FRENO TRASERO</b>                               | POST MOUNT CUSTOM ADAPTER, DIRECT 200 (220mm max with spacer) |
| <b>TAMAÑO MÁXIMO DE RUEDA</b>                      | 27'5x2.6                                                      |

## 3. LONGITUD DE INSERCIÓN DE TIJA



| TALLA CUADRO | MIN. (mm) | MAX. (mm) |
|--------------|-----------|-----------|
| <b>XL</b>    | 100       | 175       |
| <b>L</b>     | 100       | 175       |
| <b>M</b>     | 100       | 175       |

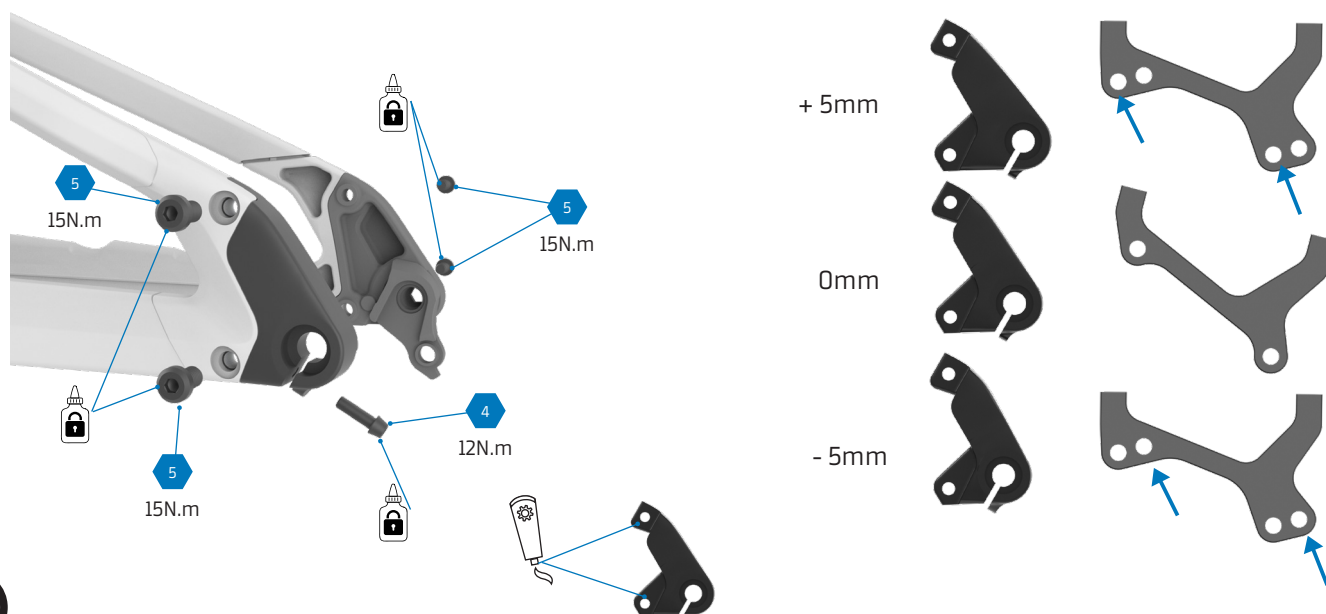
## 4. CAZOLETAS DE DIRECCIÓN



Las cazoletas de dirección superior e inferior deben instalarse siempre con la misma orientación de su excentricidad. El uso de estas cazoletas permite modificar la longitud del reach.

Para ajustar el ángulo de dirección, debe utilizarse el sistema flip chip del cuadro. Recuerde aplicar una capa ligera de grasa de montaje en las superficies de contacto antes de la instalación

## 5. PUNTERAS

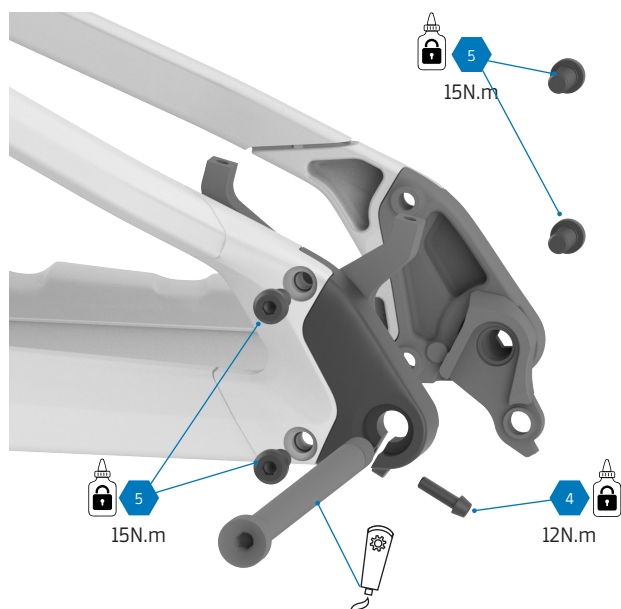


La bicicleta incluye de serie punteras estándar. Si instala punteras de tamaño grande o pequeño, es **imprescindible** **sustituir también el soporte de la pinza de freno**. El soporte estándar solo es compatible con las punteras de serie.



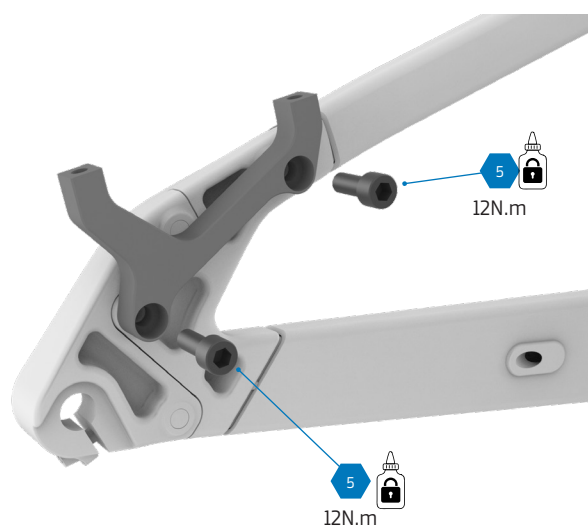
Visita <https://mondraiker.com/wo/es/frameset-summum-rr-mullet> para configurar tu geometría personalizada y obtener los datos precisos según la posición del flip chip, las punteras y las cazoletas.

## 6. INSERTAR EL EJE DE LA RUEDA TRASERA



1. Aflojar un poco tornillos de las punteras (3/4 de vuelta aproximadamente) y aflojar tornillo de fijación.
2. Insertar eje y apretar al par de apriete especificado.
3. Apretar tornillos de las punteras al par de apriete específico.
4. Apretar tornillo de fijación al par de apriete especificado.

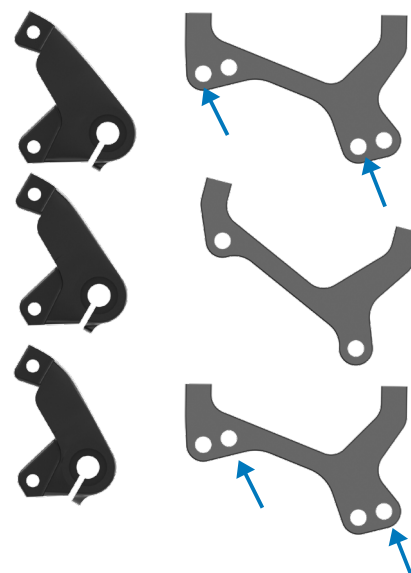
## 7. ADAPTADOR DEL FRENO



+ 5mm

0mm

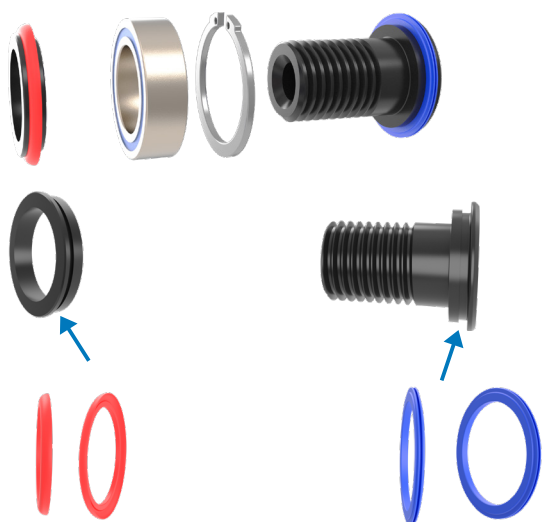
- 5mm



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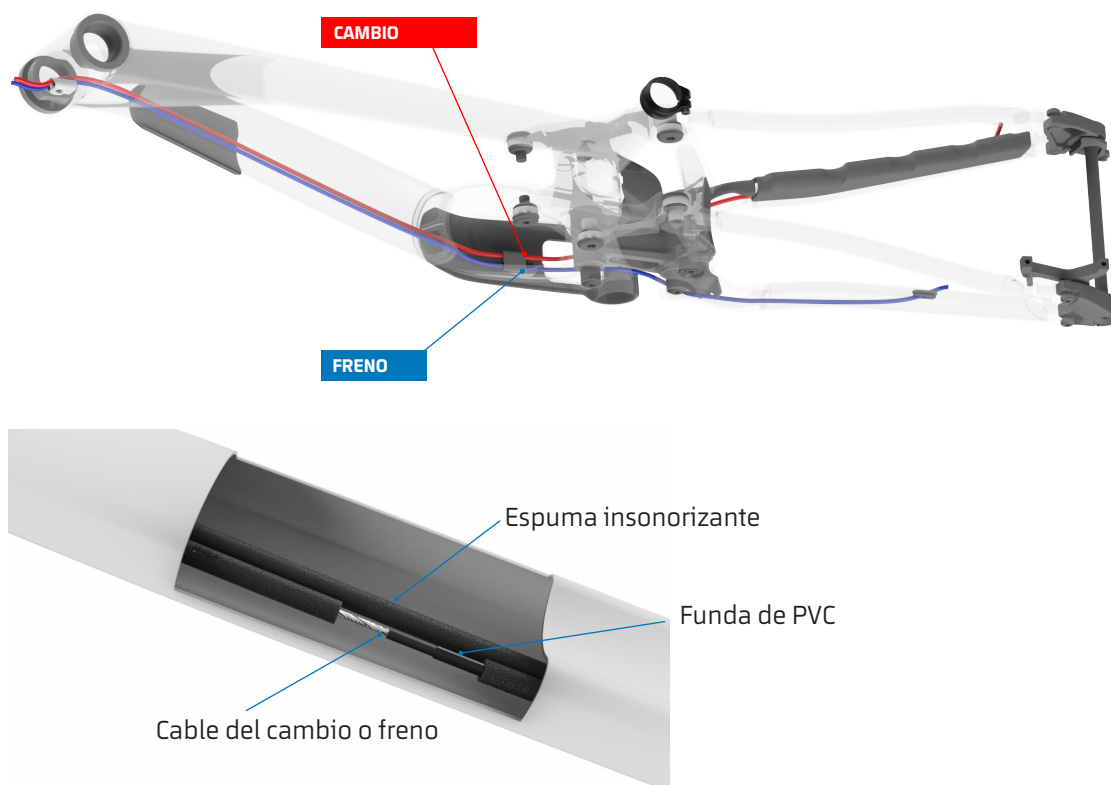


## 8. SELLOS DE GOMA

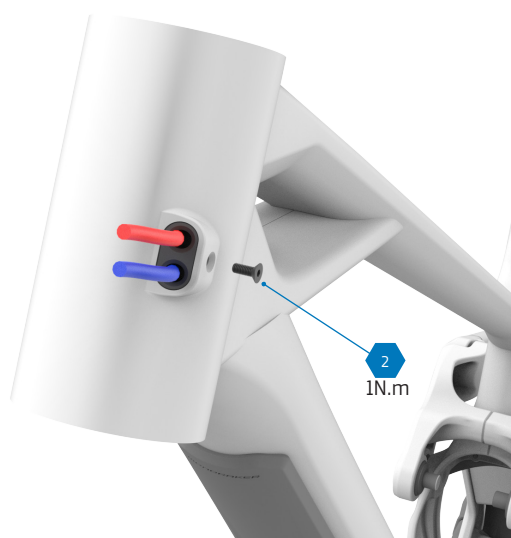


Preste atención a la posición y forma de los sellos de goma. Se han utilizado colores rojo y azul para diferenciarlos pero en realidad, los sellos son de goma de color negro.

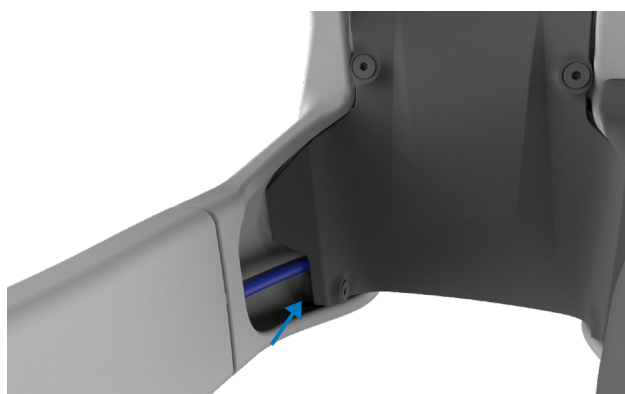
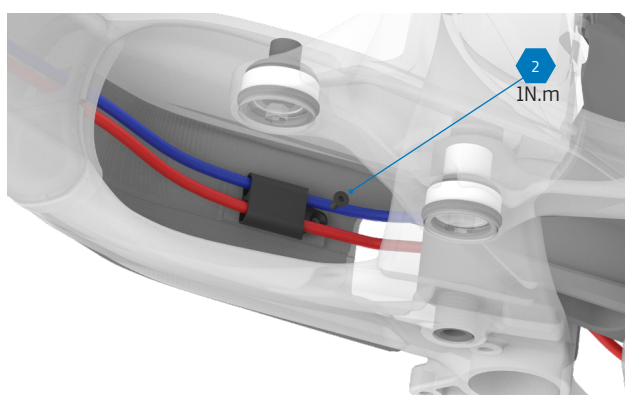
## 9. CABLEADO INTERNO



## 9. CABLEADO INTERNO

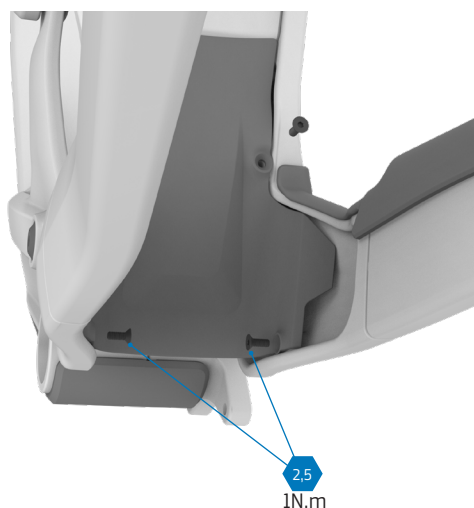
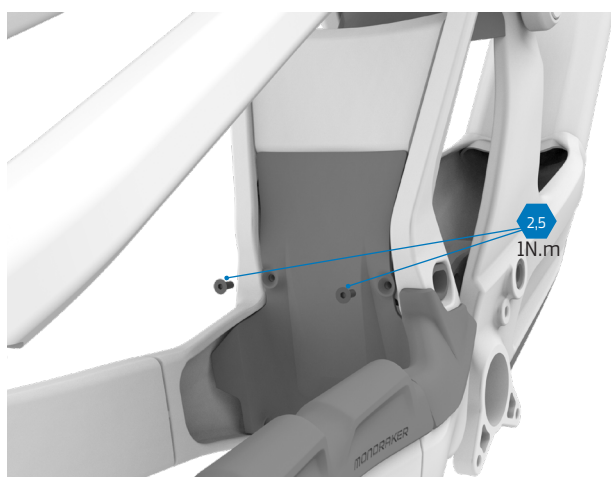
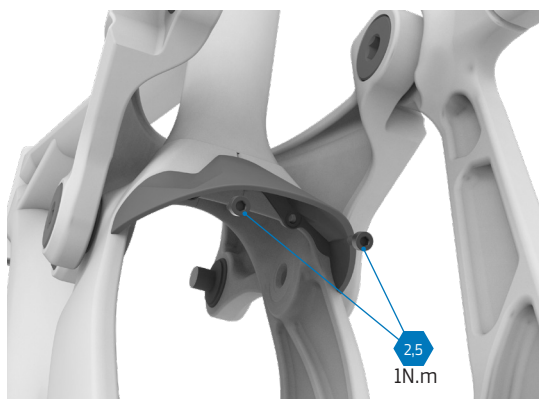


El puerto de cables se fija al cuadro por medio del tornillo.

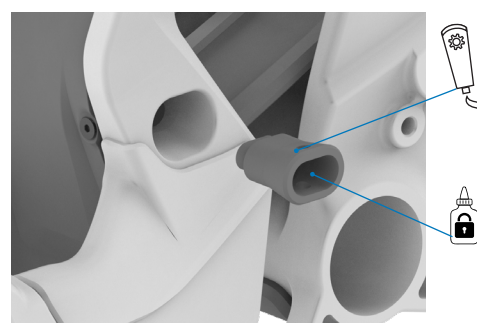
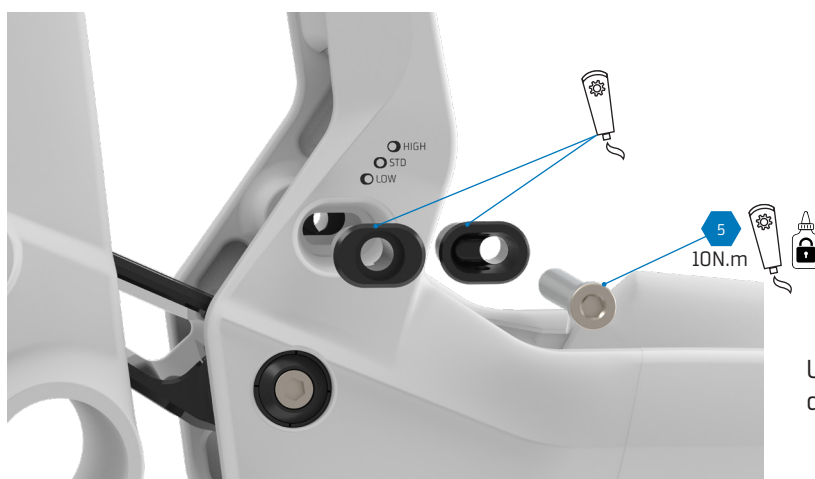


Utiliza la apertura para pasar el cable por la vaina

## 10. PROTECTORES



## 11. FLIP CHIP DEL TORNILLO DEL AMORTIGUADOR

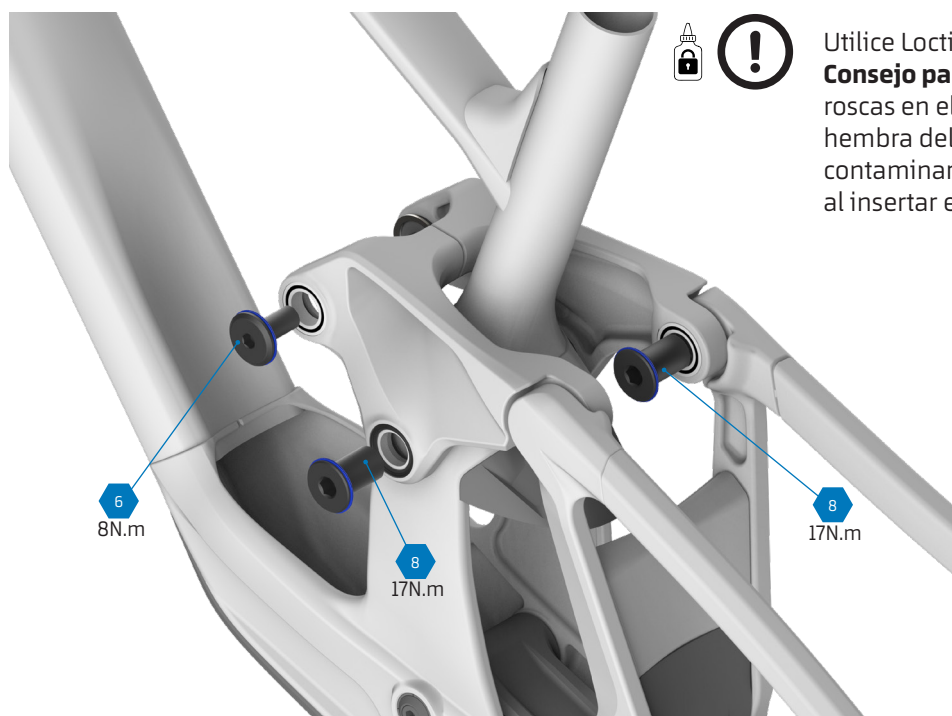


Utilice Loctite 243 o similar para la rosca y grasa de montaje para las zonas externas del flip chip.

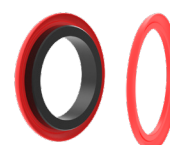
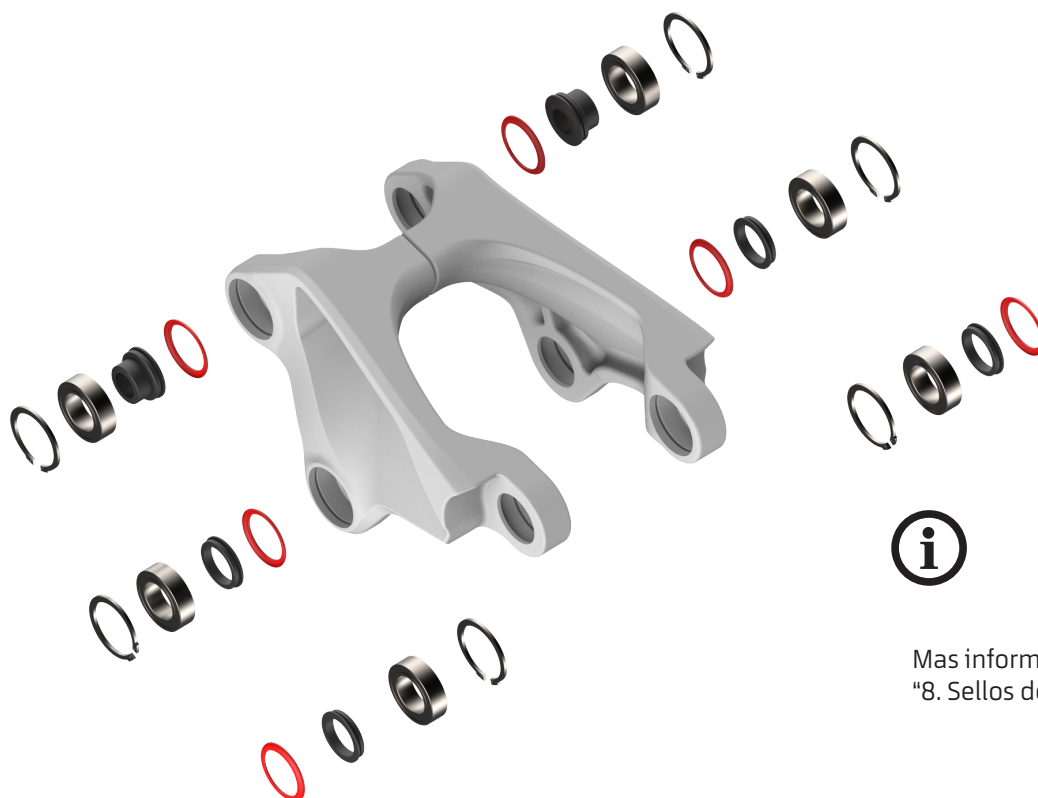
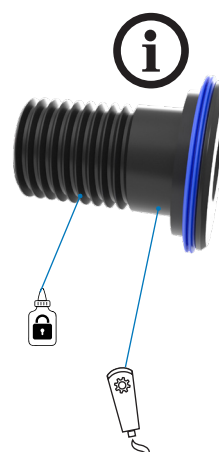


Visita <https://mondraiker.com/wo/es/frameset-summum-rr-mullet> para configurar tu geometría personalizada y obtener los datos precisos según la posición del flip chip, las punteras y las cazoletas.

## 11. BIELETA SUPERIOR



Utilice Loctite 243 o similar para la rosca.  
**Consejo para Pro:** en vez de poner el fijador de roscas en el tornillo, puedes ponerlo en la rosca hembra del cuadro de la bicicleta. Así evitas contaminar con fijador el resto de componentes al insertar el tornillo.



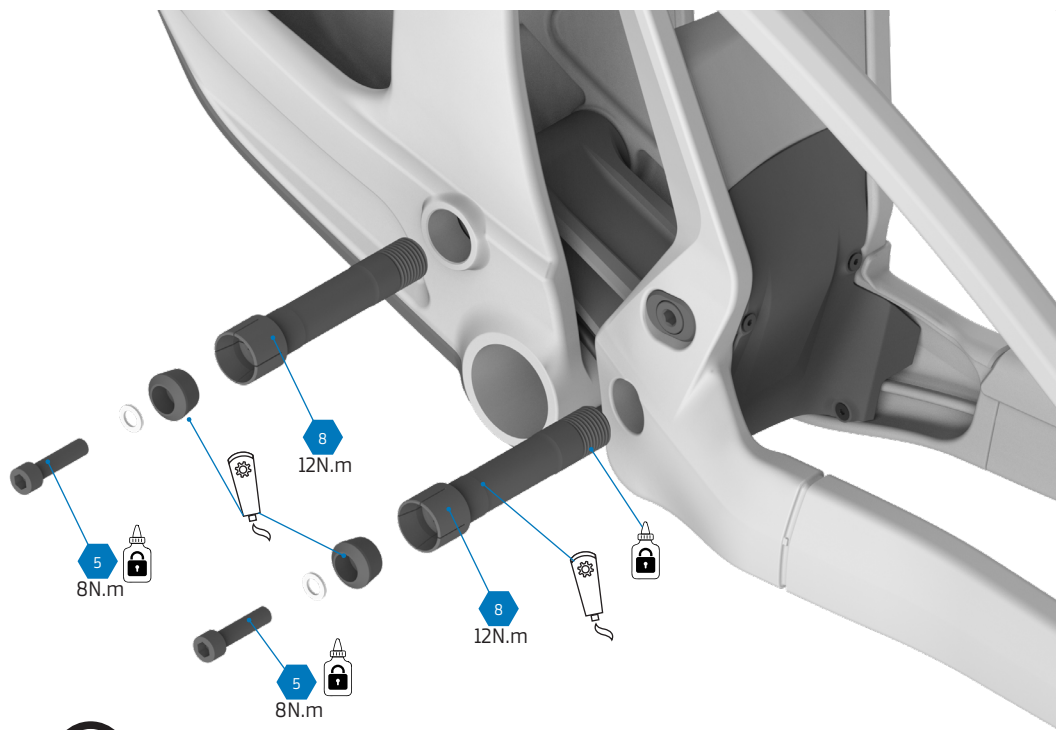
Más información: Revisa apartado "8. Sellos de Goma" de esta guía.



Utilice grasa de montaje para ensamblar las piezas.



## 12. BIELETA INFERIOR



Utilice Loctite 243 o similar para la rosca.



Utilice grasa de montaje para ensamblar las piezas.

### 13. POTENCIA



Espaciador +5 mm



Espaciador +5 mm



M6 X 50 (x2)



M6 X 40 (x2)



M6 X 30 (x2)



M6 X 20 (x4)

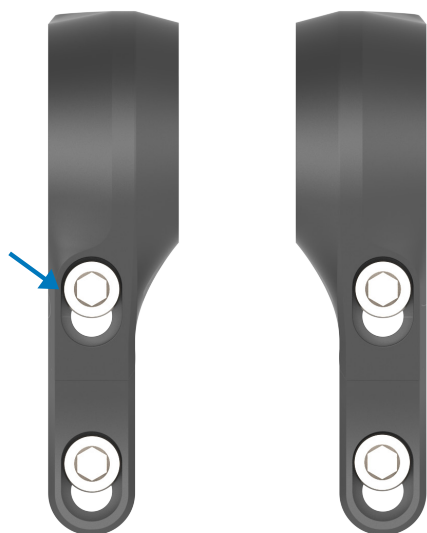


6 N.m

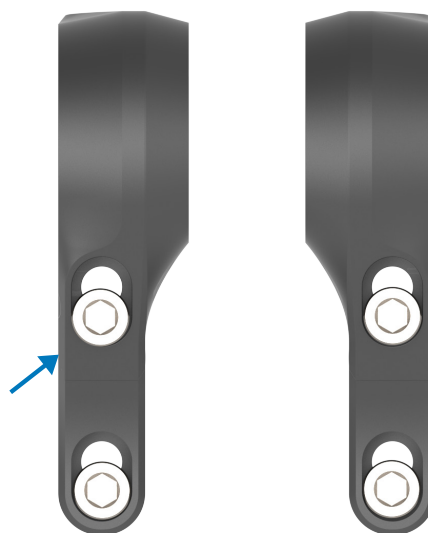
Apretar todos los tornillos a 6 Nm.



### 13. POTENCIA



Potencia de 45 mm.



Potencia de 50 mm.

### AJUSTE DEL MANILLAR



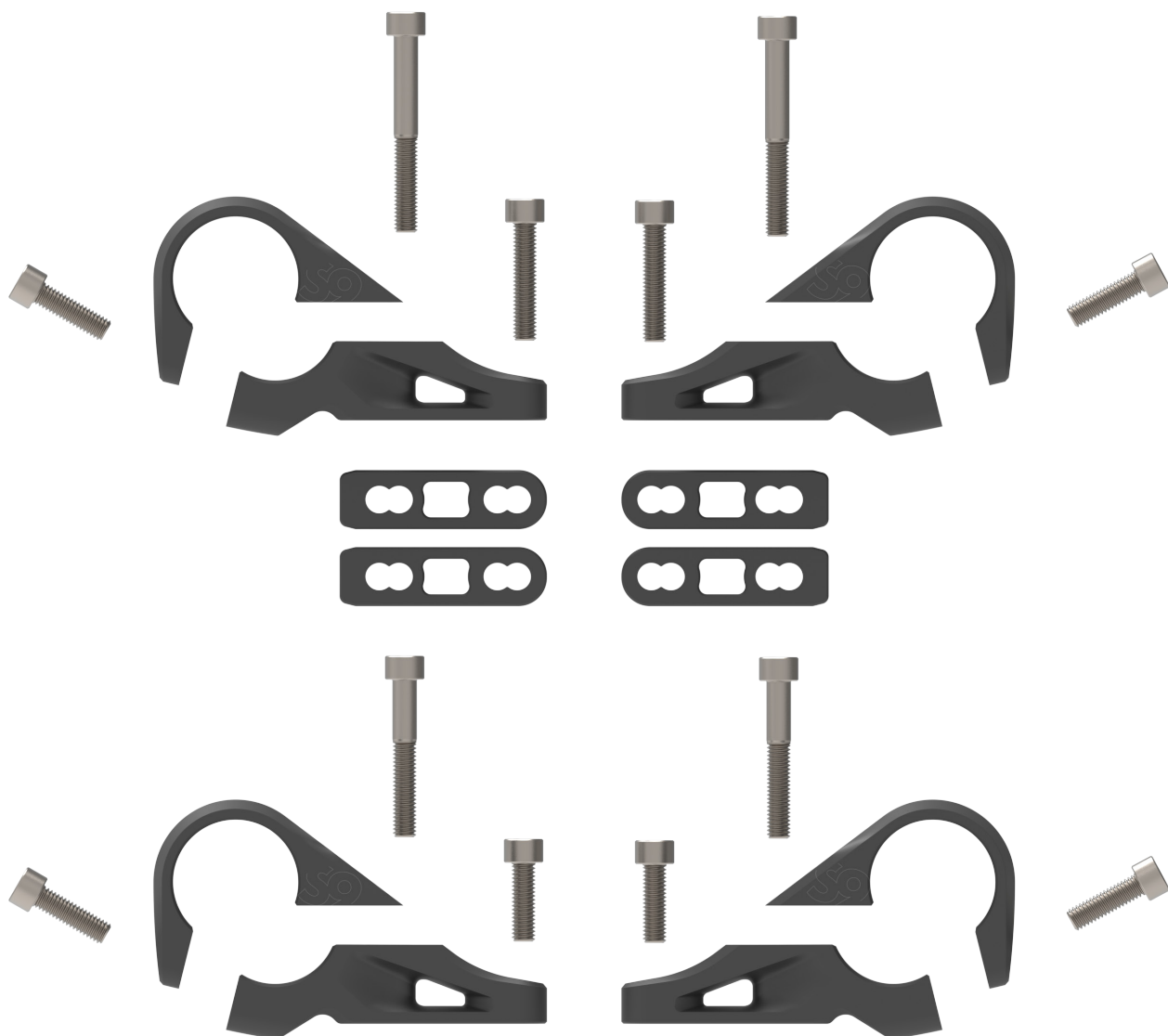
Posición cómoda



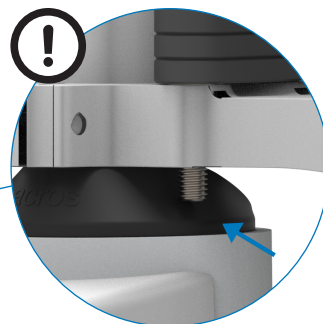
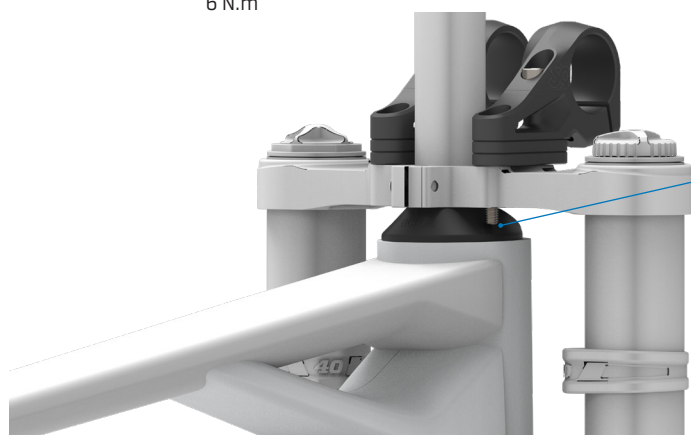
Posición estable.



### 13. POTENCIA



5  
6 N.m

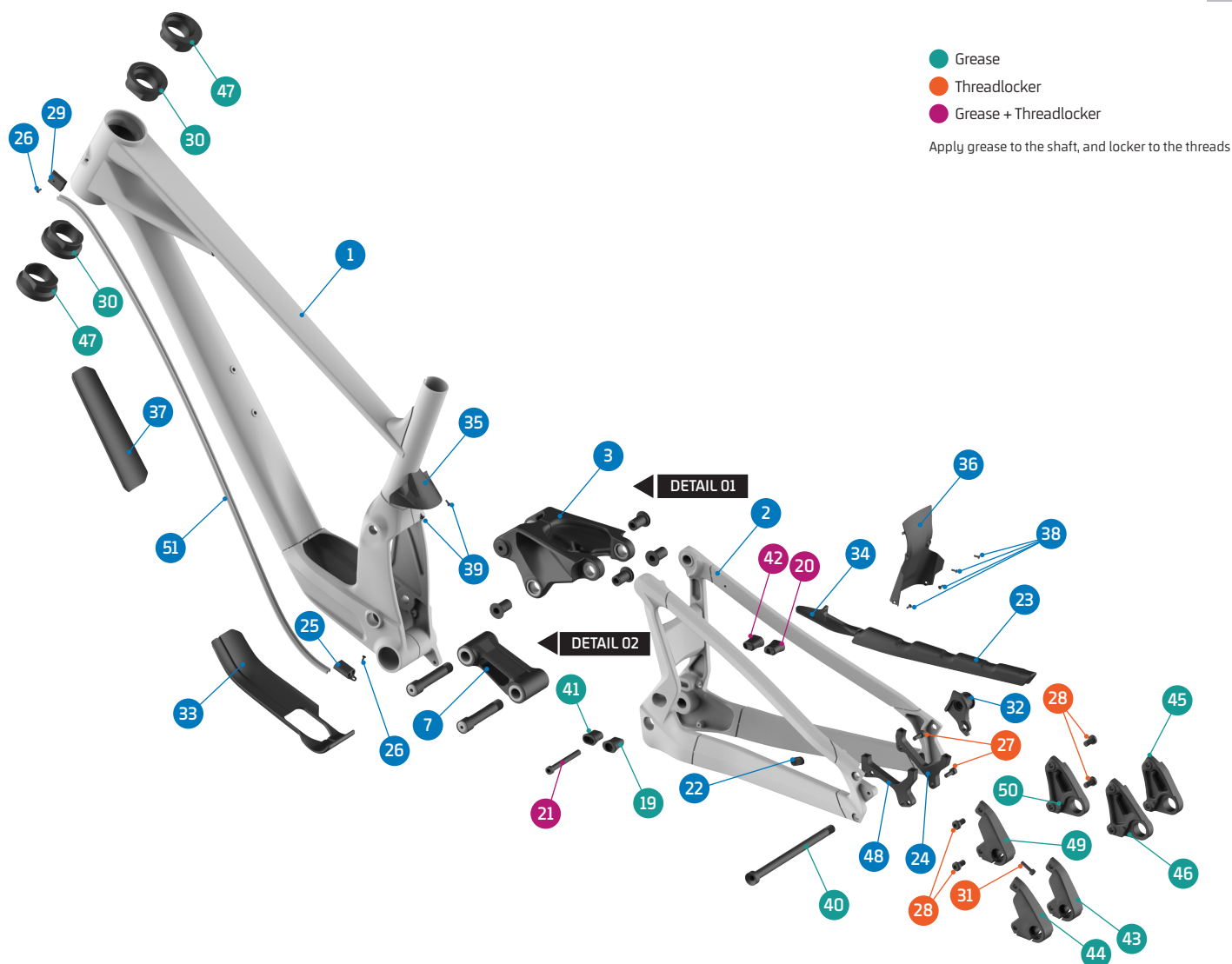


Asegúrate de que los tornillos sean lo suficientemente largos para que la rosca agarre por completo. Usar un tornillo demasiado largo podría dañar la tapa de la dirección.



## 14. SPARE PARTS

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| ITEM No. | DESCRIPTION                      | QTY. | PART NUMBER                        | TORQUE |
|----------|----------------------------------|------|------------------------------------|--------|
| 1        | FRAME                            | 1    |                                    |        |
| 2        | REAR TRIANGLE                    | 1    |                                    |        |
| 3        | UPPER LINK                       | 1    | Refer to B2B web for color options |        |
| 4        | PIVOT AXLE, M15                  | 4    | SET 3                              | 17Nm   |
| 5        | SHOCK BOLT                       | 2    | SET 2                              | 8Nm    |
| 6        | BEARING, 24x15x7 3802V-2RS       | 10   | SET 1 / 099.00113                  |        |
| 7        | LOWER LINK                       | 1    | 099.26072                          |        |
| 8        | C-RING                           | 6    | SET 2 & 3                          |        |
| 9        | SPACER, 10x17x6                  | 2    | SET 2                              |        |
| 10       | PIVOT SEAL, EXTERNAL             | 10   | SET 2,3,4 & 9                      |        |
| 11       | PIVOT SEAL, INTERNAL             | 6    | SET 2, 3 & 9                       |        |
| 12       | PIVOT WASHER                     | 4    | SET 3                              |        |
| 13       | PIVOT AXLE, 88L                  | 2    | SET 4                              | 12Nm   |
| 14       | SPACER, 38L                      | 2    | SET 4                              |        |
| 15       | WASHER, 6x10x1t                  | 2    | SET 4                              |        |
| 16       | TAPER NUT                        | 2    | SET 4                              |        |
| 17       | SCREW BOLT, M6x25                | 2    | SET 4                              | 8Nm    |
| 18       | SPACER, LOWER                    | 4    | SET 4                              |        |
| 19       | SHOCK FLIPCHIP CENTER            | 1    | 099.26073                          |        |
| 20       | SHOCK FLIPCHIP DRIVE SIDE CENTER | 1    | 099.26074                          |        |
| 21       | SHOCK BOLT, 65L                  | 1    | SET 2 / 099.25038                  | 10Nm   |
| 22       | CABLE RUBBER                     | 1    | 989.13010                          |        |
| 23       | CHAINSTAY PROTECTOR              | 1    | 099.25016                          |        |
| 24       | DISC MOUNT                       | 1    | SET 5                              |        |
| 25       | CABLE GUIDE                      | 1    | 099.22017                          |        |
| 26       | SCREW BOLT, M3x8                 | 2    | 099.20068                          | 1Nm    |

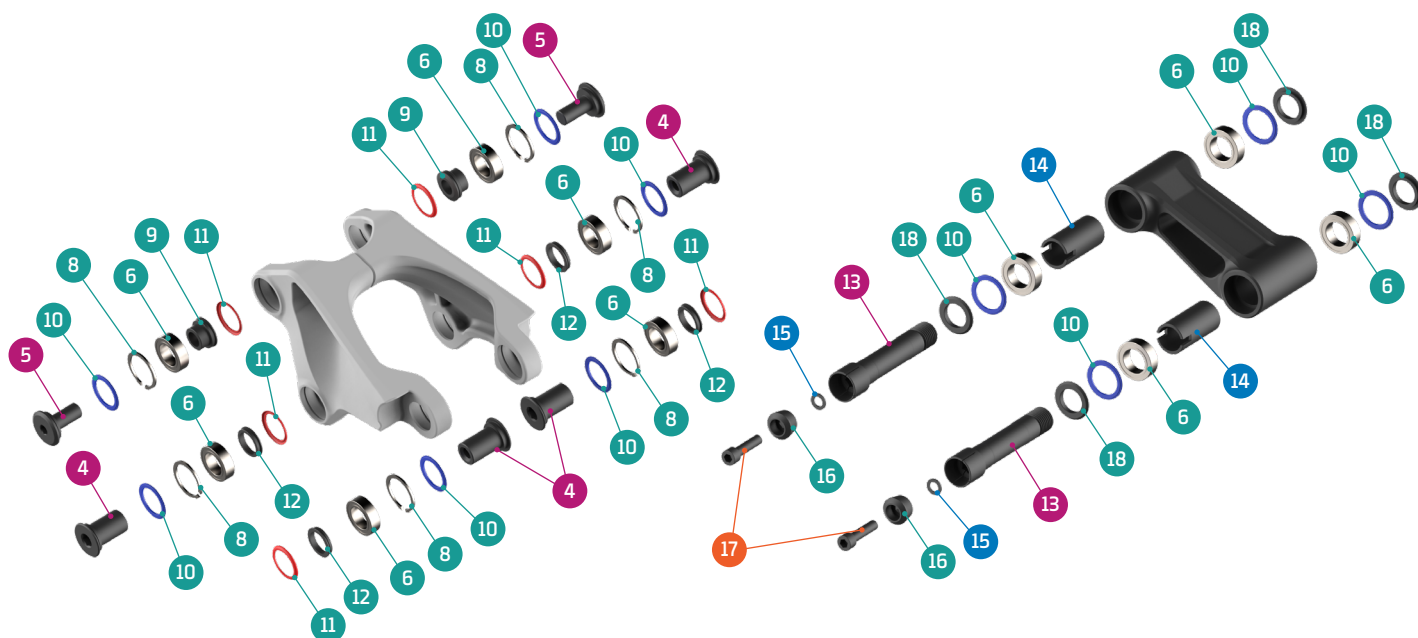
| ITEM No. | DESCRIPTION                        | QTY. | PART NUMBER  | TORQUE |
|----------|------------------------------------|------|--------------|--------|
| 27       | SCREW BOLT, M6x15                  | 2    | SET 5        | 12Nm   |
| 28       | SCREW BOLT, M8x15                  | 4    | 099.26085    | 15Nm   |
| 29       | CABLE GUIDE HEAD SET               | 1    | 099.22018    |        |
| 30       | HEADSET CUP CENTER                 | 2    | 099.26075    |        |
| 31       | SCREW BOLT, M5x18                  | 1    | SET 6, 7 & 8 | 12Nm   |
| 32       | HANGER                             | 1    | SRAM UDH     |        |
| 33       | BOTTOM BRACKET PROTECTOR           | 1    | 099.26076    |        |
| 34       | YOKE PROTECTOR                     | 1    | 099.26077    |        |
| 35       | FT SHOCK FENDER                    | 1    | 099.26078    |        |
| 36       | RT SHOCK FENDER                    | 1    | 099.26079    |        |
| 37       | DOWN TUBE PROTECTOR                | 1    | 099.26080    |        |
| 38       | SCREW BOLT, M3x8                   | 4    | 099.20068    | 2Nm    |
| 39       | SCREW BOLT, M3x6                   | 2    | 099.12116    | 2Nm    |
| 40       | SUMMUM 26 WHEEL AXLE               | 1    | 099.26081    | 12Nm   |
| 41       | SHOCK FLIPCHIP HIGH/LOW            | 1    | 099.26082    |        |
| 42       | SHOCK FLIPCHIP DRIVE SIDE HIGH/LOW | 1    | 099.26083    |        |
| 43       | DROPOUT -5                         | 1    | SET 7        |        |
| 44       | DROPOUT +5                         | 1    | SET 8        |        |
| 45       | DROPOUT -5 DRIVE SIDE              | 1    | SET 7        |        |
| 46       | DROPOUT +5 DRIVE SIDE              | 1    | SET 8        |        |
| 47       | HEADSET CUP +/- 5                  | 2    | 099.26084    |        |
| 48       | DISC MOUNT +/-5                    | 1    | 099.26086    |        |
| 49       | DROPOUT STANDARD                   | 1    | SET 6        |        |
| 50       | DROPOUT STANDARD DRIVE SIDE        | 1    | SET 6        |        |
| 51       | INTERNAL CABLE GUIDE               | 1    | 099.21010P   |        |

## 14. SPARE PARTS

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DETAIL 01

DETAIL 02



SET 6

NEUTRAL DROPOUTS KIT



SET 7

MINUS 5 DROPOUTS KIT



SET 8

PLUS 5 DROPOUTS KIT



SET 9

SEALS KIT



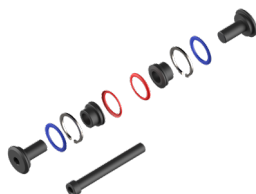
SET 1

ZERO BEARING KIT 25



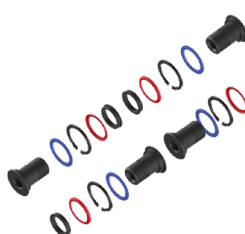
SET 2

SHOCK HARDWARE KIT 24



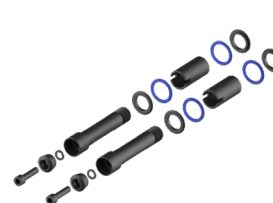
SET 3

UPPER LINK KIT 34



SET 4

LOWER LINK KIT 39



SET 5

DISC ADAPTOR KIT



| PART NUMBER | DESCRIPTION                  | COMPONENTS                                                                                                                                      |
|-------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 099.22100   | SET 1: ZERO BEARING KIT 25   | BEARING 3802-2RS, 24x15x7 (x10)                                                                                                                 |
| 099.26202   | SET 2: SHOCK HARDWARE KIT 24 | PIVOT SEAL INTERNAL (x2) / PIVOT SEAL EXTERNAL (x2) / C-RING (x2) / SPACER, 10x17x6 (x2) / SHOCK BOLT (x2) / SHOCK BOLT, 65 (x1)                |
| 099.26300   | SET 3: UPPER LINK KIT 34     | PIVOT WASHER (x4) / PIVOT SEAL INTERNAL (x4) / PIVOT SEAL EXTERNAL (x4) / PIVOT AXLE, M15 (x4) / C-RING (x4)                                    |
| 099.26401   | SET 4: LOWER LINK KIT 39     | PIVOT SEAL EXTERNAL (x4) / PIVOT AXLE 88L, (x2) / SCPACER, 38 (x2) / WASHER (x2) / TAPER NUT (x2) / SCREW BOLT, M6x25 (x2) / SCPACER LOWER (x4) |
| 099.25018   | SET 5: DISC ADAPTOR KIT      | DISC ADAPTOR (x1) / SCREW BOLT (x2)                                                                                                             |
| 099.26087   | SET 6: NEUTRAL DROPOUTS KIT  | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT STANDARD (x1) / DROPOUT STANDARD DRIVE SIDE (x1)                                                      |
| 099.26088   | SET 7: MINUS 5 DROPOUTS KIT  | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT -5 (x1) / DROPOUT -5 DRIVE SIDE (x1)                                                                  |
| 099.26089   | SET 8: PLUS 5 DROPOUTS KIT   | SCREW BOLT REAR AXLE M5x18 (x1) / DROPOUT +5 (x1) / DROPOUT +5 DRIVE SIDE (x1)                                                                  |
| 099.26062   | SET 9: SEALS KIT             | PIVOT SEAL INTERNAL (x8) / PIVOT SEAL EXTERNAL (x10)                                                                                            |



## 15. CINEMÁTICA

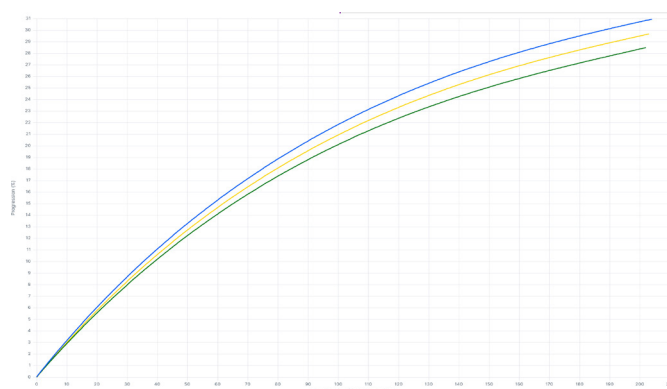
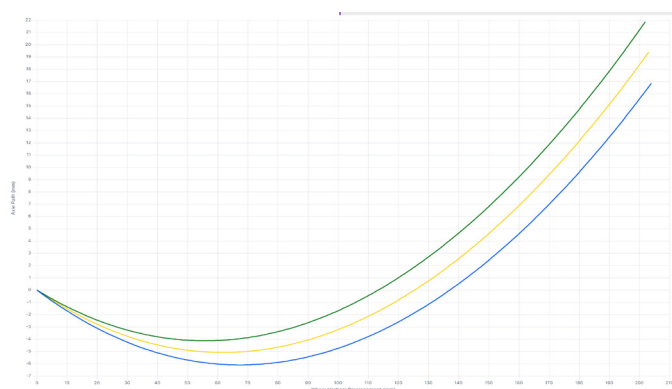
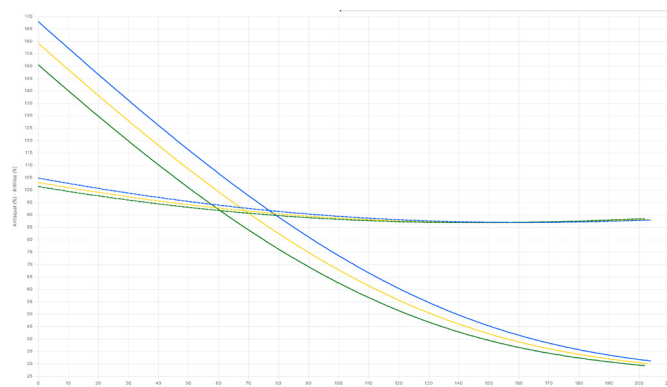
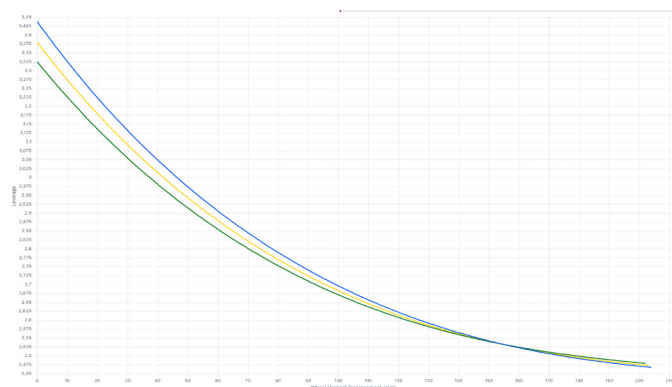
La cinemática de la nueva Summum, así como su geometría, se basan en gran parte en el desarrollo llevado a cabo por el equipo MFR sobre el prototipo de la Summum durante la temporada, teniendo siempre en cuenta que el abanico de usuarios será mucho más amplio. Del rango de ajustes del prototipo Summum, hemos seleccionado los que creemos que se adaptarán a un mayor número de perfiles de ciclistas.

Respecto al prototipo original de la Summum, hemos realizado algunos cambios para obtener un menor ratio de apalancamiento en el primer 50% del recorrido, buscando un buen soporte; a partir de ese punto, hemos aumentado el ratio para reducir la progresividad y aprovechar todo el recorrido.

Hemos diseñado un flip chip en el anclaje inferior del amortiguador que modifica principalmente la geometría, pero también el punto de inicio del ratio de apalancamiento y la progresividad en un 1,5%. Es una pequeña modificación, pero puede resultar muy interesante para adaptar la bicicleta a diferentes preferencias, terrenos o amortiguadores.

A continuación, encontrará la información habitual y el ajuste "estándar" comparado con las distintas posiciones del flip chip. Amarillo = "estándar", verde = -3.5 (posición baja) y azul = +3.5 (posición alta).

Muelles recomendados para el amortiguador trasero: M 450 lb/in, L 500 lb/in y XL 550 lb/in.





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