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Main pivot and

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Drive unit and **cranks**



Adjust the compensation



Re-installing the <u>cranks</u>



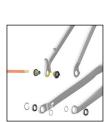
Speed sensor



Battery



Specifications



Active Braking Pivot (ABP)



Rocker pivot and seat stay





Brake, derailleur and dropper post routing

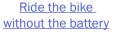


Charge port cover

Wiring harness and cable tray organiser









Connect lights to the TQ Smart Box



Safety

Tighten hardware properly

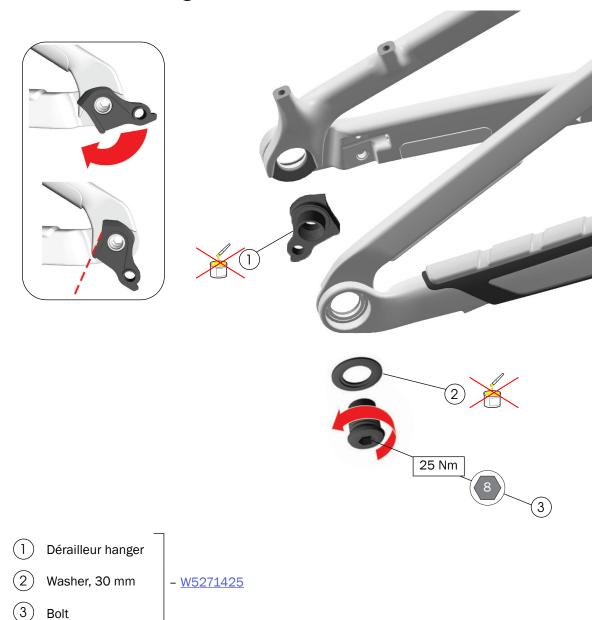
Always tighten hardware to the specified torque. Over-tightening hardware could deform or break the hardware or components. Under-tightening hardware could cause hardware or components to become loose. Either situation could damage the bicycle and result in injury to the rider.

Re-apply threadlocker

All reused-fasteners with a pre-applied threadlocker must be cleaned with isopropyl alcohol and have new threadlocker applied before re-assembly. If a threadlocker is not applied, the fasteners may loosen, which could damage the bicycle and result in injury to the rider.



Dérailleur hanger



Tools

- 8mm hex tool
- Torque wrench (left-hand thread) with 8 mm hex bit

WARNING

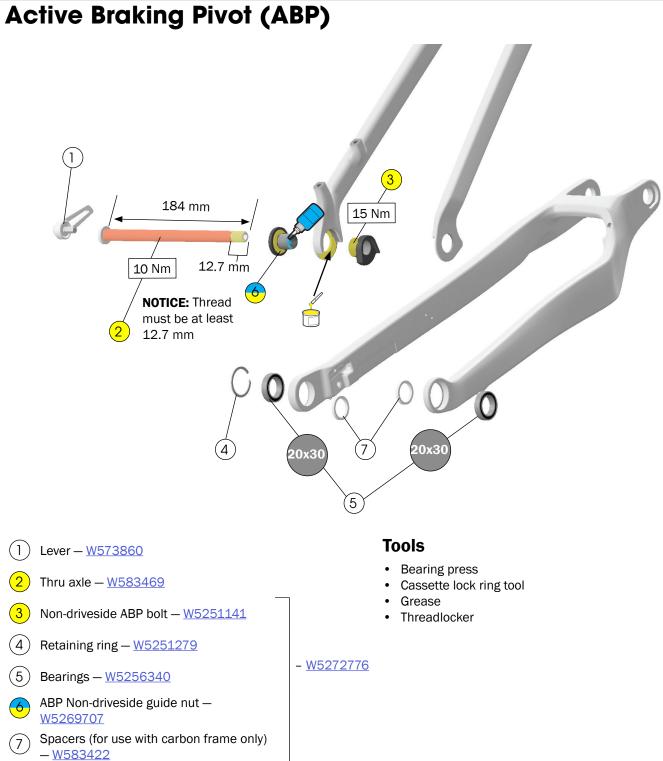
Do not apply grease to the derailleur hanger or bolt.

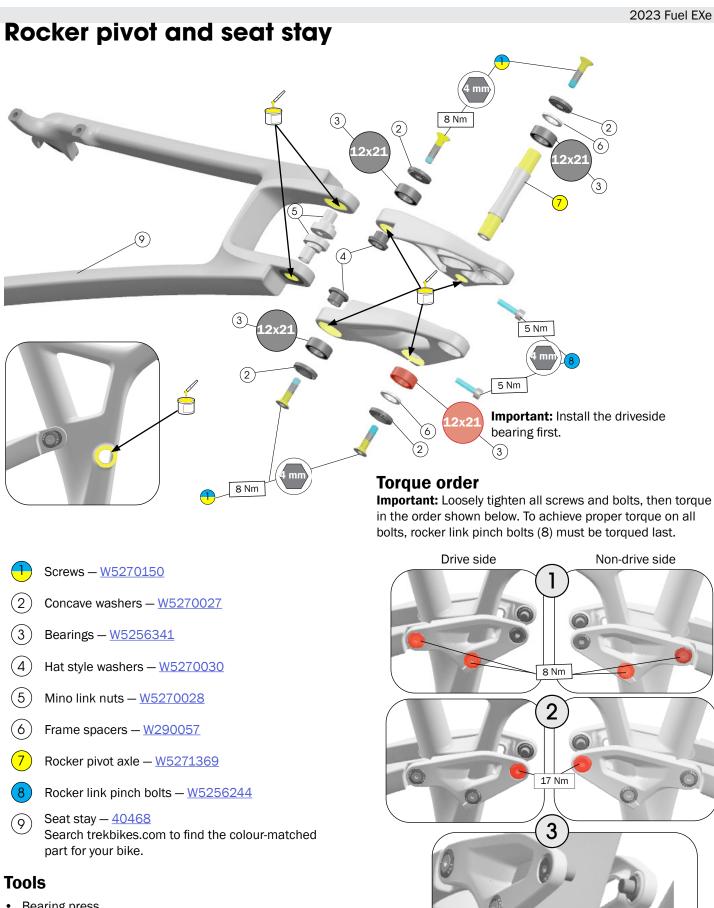
This bicycle frame is designed to use a Universal Derailleur Hanger (UDH).

NOTICE: The washer is frame-specific. Install only the washer size specified.

NOTICE: Do not over-tighten. Over-tightening the bolt could cause the hanger to break.

For additional information about the UDH, refer to the SRAM user manual at <u>sram.com.</u>

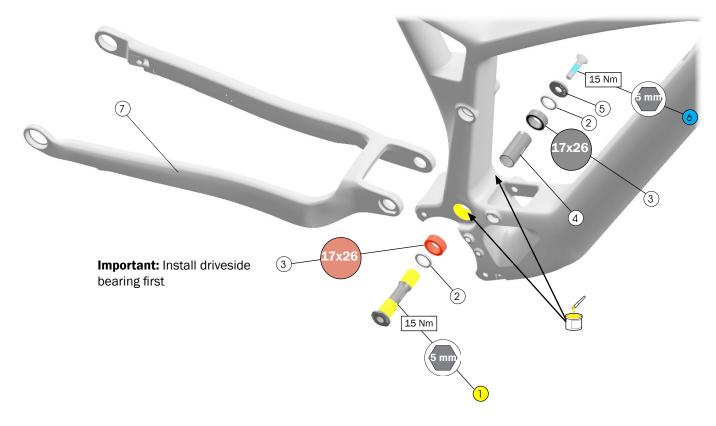




- Bearing press
- 4 mm hex wrench
- Torque wrench with 4 mm hex bit
- Grease
- Threadlocker

5 Nm

Main pivot and chain stay

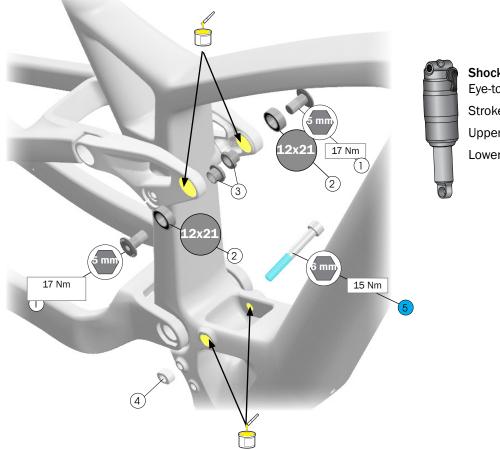


- 1 Main pivot axle <u>W5270022</u>
- (2) Frame spacers <u>W440921</u>
- (3) Bearings <u>W5256338</u>
- (4) Main pivot sleeve W600642
- (5) Concave washers <u>W5270024</u>
- 6 Screws <u>W5270149</u>
- Chainstay <u>40466</u>
 Search trekbikes.com to find the colour-matched part for your bike.

Tools

- Bearing press
- 5 mm hex tool
- Torque wrench with 5mm hex bit
- Grease
- Threadlocker

Rear shock hardware and dimensions



- 5272748

Shock Dimensions Eye-to-eye length: 205 mm Stroke length: 60 mm Upper width: 54 mm x 10 mm Lower width: 40 mm x 8 mm

- 1) Upper bolts, M10 x 1 x 19 mm <u>W5270031</u>
- (2) Bearings <u>W5256341</u>
- (3) Hat-style washers <u>W5270030</u>
- (4) Nut <u>W286347</u>
- 5 Lower bolt, M8 x 1 x 60 mm

Tools

- Bearing press
- 6 mm hex wrenches
- Torque wrench with 6 mm bit
- Grease
- Threadlocker

Set-up

Recommended sag: 30%, 18 mm

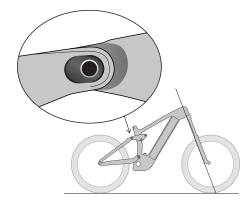
Refer to the suspension set-up card included with your bike or the suspension calculator at trekbikes.com/suspension-calculator.

For recommended rebound settings, refer to the suspension calculator at trekbikes.com/suspension-calculator.

Adjust the geometry

Flip the Mino link to change the bike's geometry to fit your riding style or the terrain.

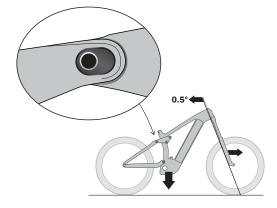
Steeper head tube angle



Mino link in the high position

- Pulls in the front fork for quicker steering
- Raises the bottom bracket for improved climbing

Slacker head tube angle

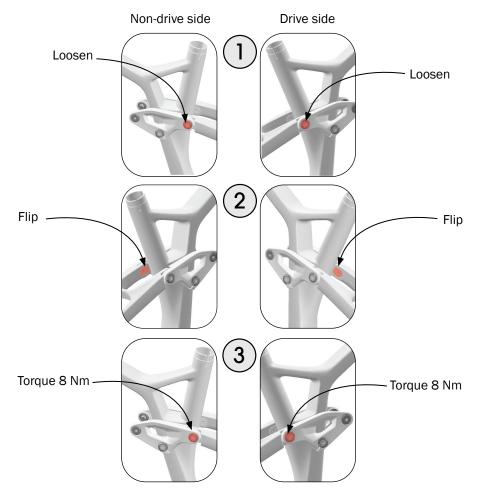


Mino link in the low position

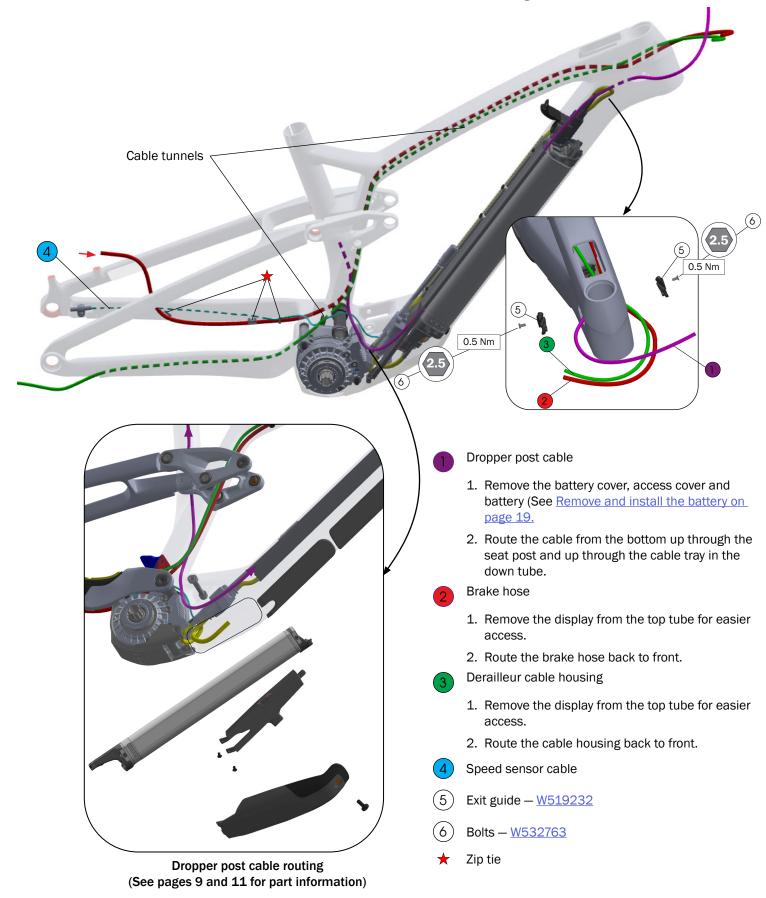
- Pushes the head tube angle back 0.5° and pushes out the front fork for slower steering that is more stable at high speed
- Lowers the bottom bracket up to 9 mm for more stability

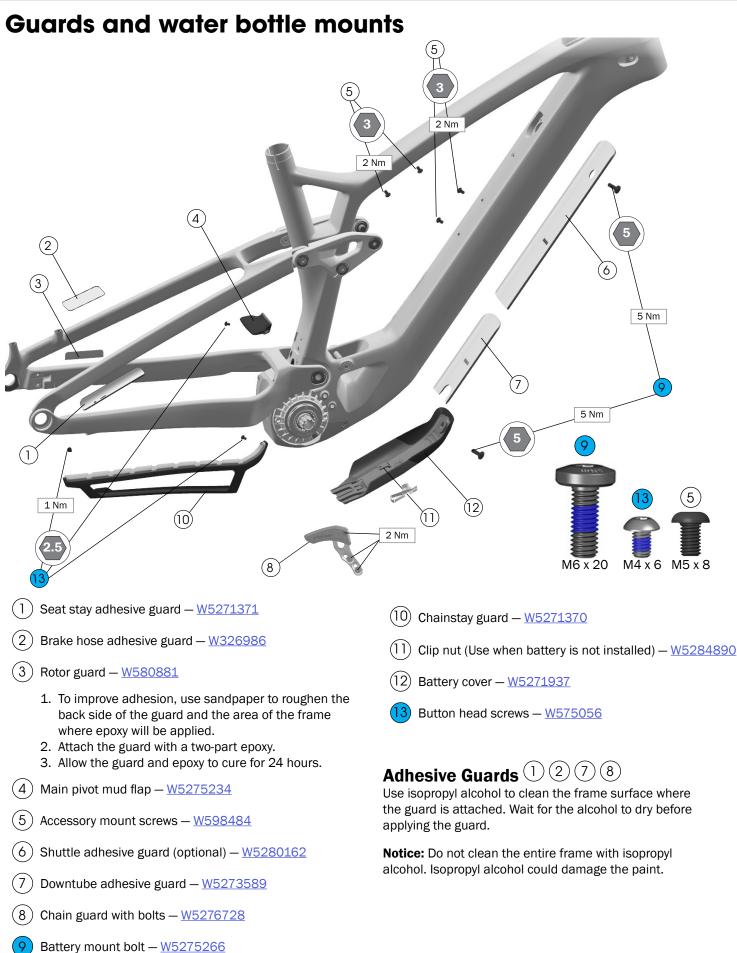
Tools

- 4 mm hex tool
- Torque wrench with 4 mm hex bit

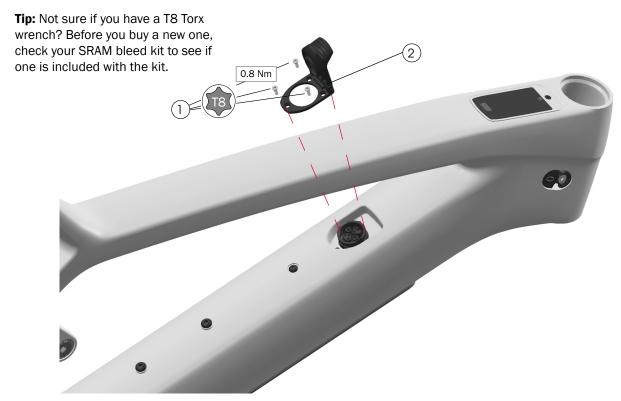


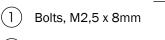
Brake, derailleur and dropper post routing





Charge port cover



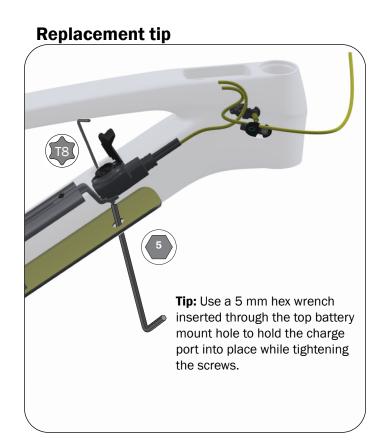


- <u>5289578</u>

(2) Charge port cover

Tools

- T8 Torx wrench
- 5 mm hex wrench

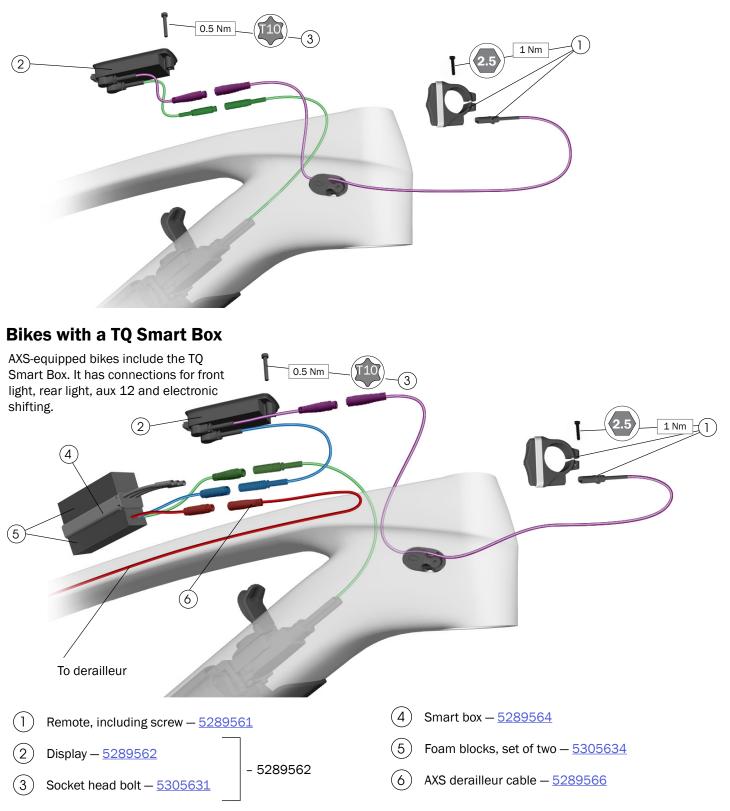


Remote, display and Smart Box

For detailed service instructions:

Refer to the TQ service manuals found on tq-ebike.com/en/support/manuals.

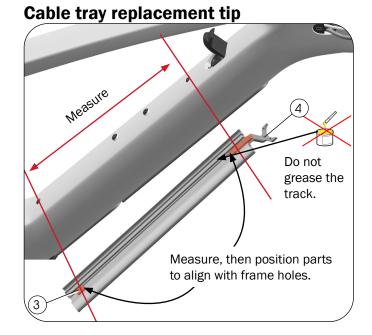
Bikes without a TQ Smart Box



Wiring harness and cable tray organiser



- Button head cap screws <u>W575056</u>
- (2) Cable tray <u>W5274993</u>
- (3) Sliding T nut <u>W5283261</u>
- (4) Charge port holder W5274996
- (5) Screws <u>W545633</u>
- (6) Wiring harness <u>5289573</u>
- (7) Access cover <u>W5271943</u>
- 8 Screws <u>W575056</u>

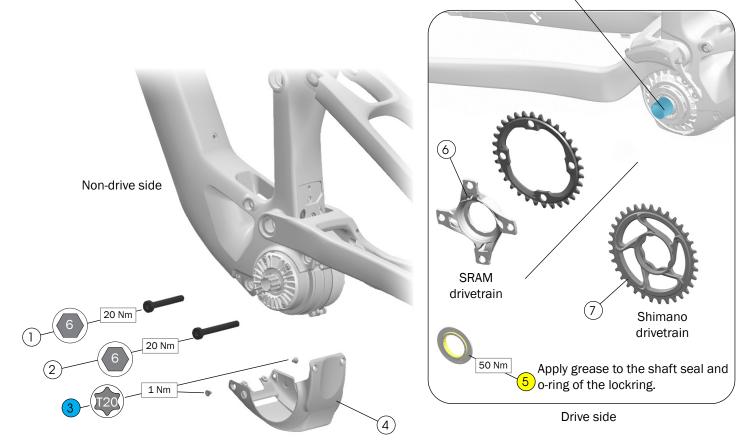


Drive unit

For detailed service instructions:

Refer to the TQ service manuals found on tq-ebike.com/en/support/manuals.

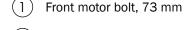
Notice: Before assembling the chain ring (spider) or lockring, place the included protective sleeve over the bottom bracket spindle. Failure to use the sleeve could damage the seal on the lockring and allow water to damage the motor. Remove after assembly.



Tools

2

- 6 mm hex wrench
- T20 Torx wrench
- Torque wrench with 6 mm bit
- BB-UN55 bottom bracket tool part number 536183



- <u>5289570</u>

3 Screws, 4-pack – <u>5269023</u>

Rear motor bolt, 62 mm

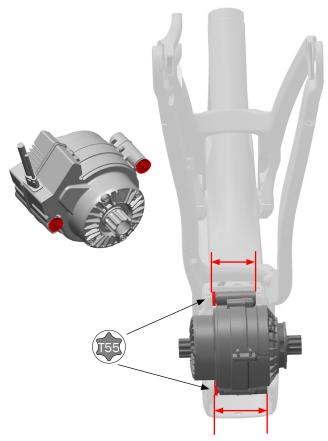
- (4) Motor guard <u>W5271938</u>
- 5 Lockring <u>5289572</u>

- (6) FSA spider for SRAM spec models W5275013
- 9 e*Thirteen chainring for Shimano Spec models W5272388

Notice: To disconnect the speed sensor from the drive unit, hold each connector and gently pull them apart. Do not pull the cable. Pulling the cable could damage the speed sensor. Notice: Do not carry the drive unit by the cables because this could damage the drive unit.

Adjust the compensation screws

Before mounting a replacement drive unit, adjust the compensation screws (tighten or loosen) to match the frame as shown

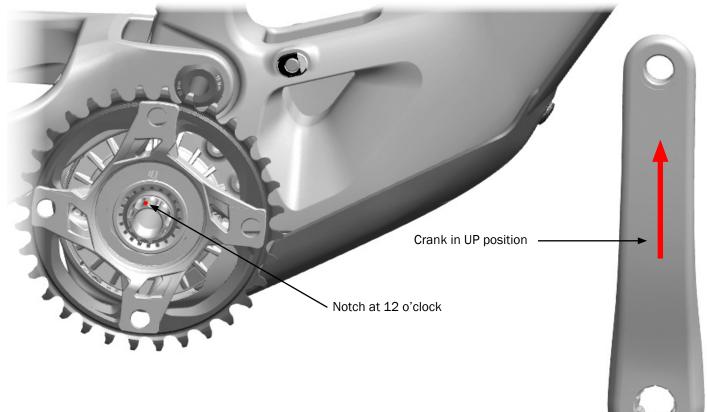


NOTE: Only adjust the compensation screws if you are replacing the drive unit.

Re-installing the cranks

Note: a CWP-7 Crank Puller be helpful to remove some types of crank arms.

The TQ system is designed for cranks to be installed in the UP position and in alignment with the notches on spindle. Installing the cranks in a different position will cause the drive unit to run rough for a few hundred meters until the system re-learns the position of the cranks.

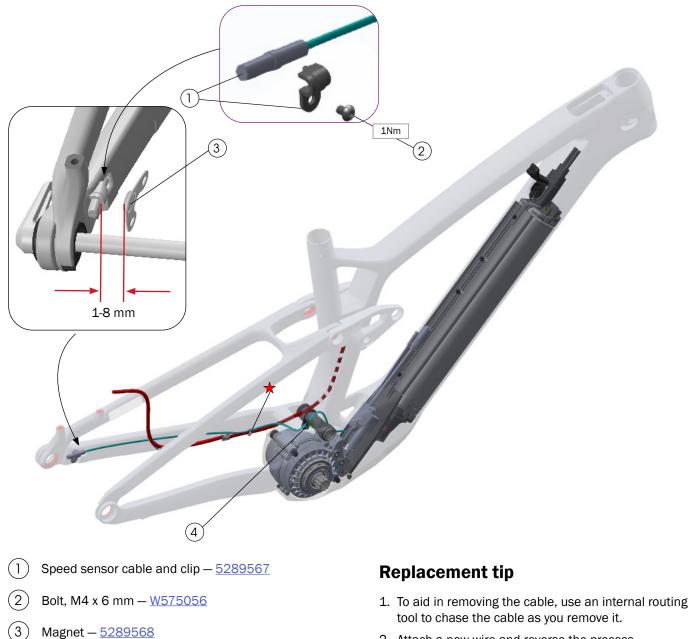


- 1. Locate the notch on the spindle. There are notches on the driveside and non-driveside.
- 2. Rotate the spindle until one notch is at the 12 o'clock position.
- 3. Install the crank in the up position.

Speed sensor

For detailed service instructions:

Refer to the TQ service manuals found on tq-ebike.com/en/support/manuals.



2. Attach a new wire and reverse the process.

Notice: To disconnect the speed sensor from the drive unit, hold each connector and gently pull them apart. Do not pull the cable. Pulling the cable could damage the speed sensor.

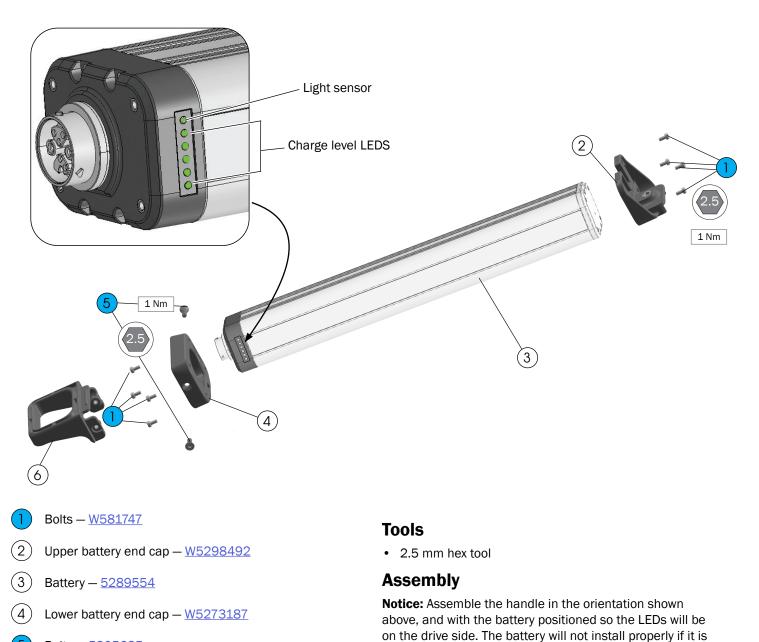
Cable grommet – <u>W5255861</u>

(4)

Battery

For detailed service instructions:

Refer the TQ service manuals found on tq-ebike.com/en/support/manuals.



- 5 Bolts <u>5305635</u>
- (6) Battery pull handle <u>W5273188</u>

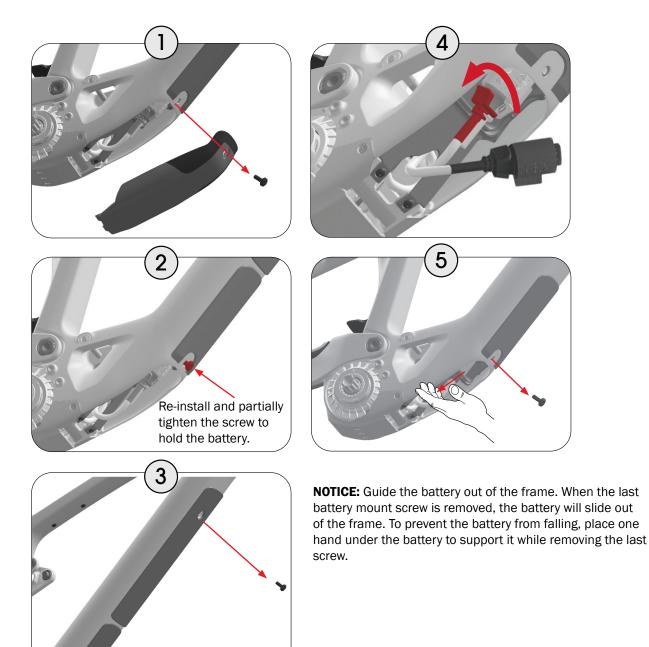
Charge level LEDs

assembled incorrectly.

The LEDs on the battery indicate the charge level. To refresh the status, place a finger over the LEDs for a few seconds, then uncover. Each LED represents 20% of the battery charge.

Remove and install the battery

Remove the battery



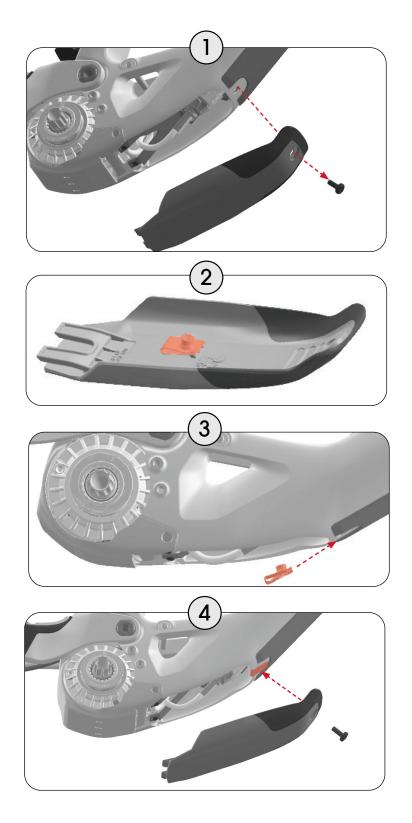
Install the battery

- 1. Insert the battery.
- 2. Install the top mounting screw to hold the battery in place.
- 3. Plug in the battery.
- 4. Rotate the battery lock to the closed position.

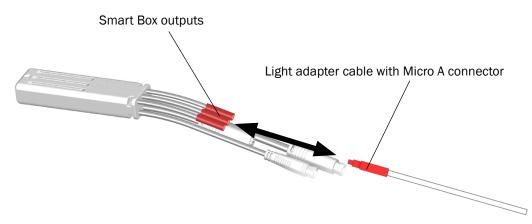
- 5. Gently tug the battery handle to verify the battery is locked into place.
- 6. Install the battery cover.
- 7. Torque the top and bottom mountings screws to 5 Nm.

Ride the bike without the battery

The battery helps hold the motor cover in place. To ride the bike without the battery, you must install the clip nut to hold the motor cover in place. The clip nut is stored on the inside of the battery cover.



Connect lights to the TQ Smart Box

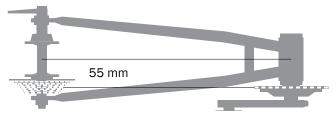


Lights can be connected to the TQ smart box and powered by the bike battery. The Smartbox power outputs must be activated via the Dealer Service Tool.

- Maximum power (front and rear light combined): 20 W at 12 V.
- List of compatible lights: refer to TQ's FAQ:
 - English: tq-ebike.com/en/support/faq
 - German: tq-ebike.com/de/support/faq
- Required:
 - A light adapter cable with a Micro A connector.
 - The Dealer Service Tool (shop use only) to activate the power output on the Smart Box.

Specifications

Chain line (1x only)

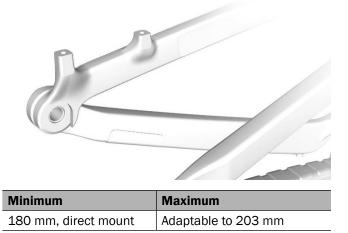


Chain ring (1x only)

Minimum	Maximum
30T	34T Round

Oval rings of any size are not recommended as they will affect motor performance.

Rear brake mount



Maximum tyre size

29" x 2.5"

Notice: Measurements of actual tyres may vary. Always verify that there is sufficient clearance between the tyre and the frame. Improper tyre size could damage the bicycle frame. Trek recommends 6 mm clearance above and on the sides of the tyre.

Seat post



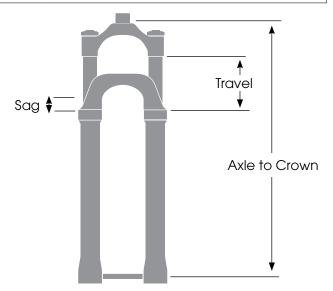
Always follow the seat post manufacturer's minimum insertion recommendation. Failure to follow the recommendation could cause damage to the seat post and result in injury to the rider.

Minimum insertion 75 mm Maximum insertion Small 190 mm Medium 225 mm Large 250 mm Extra Large 285 mm Seat tube inside diameter 34.9 mm

Seat tube post clamp outer diameter 39.7 mm

Fork

Exceeding the recommended maximum fork length could damage the bicycle and result in injury to the rider.



Frame/Size	Axle to Crown (mm)		Travel (mm)
S, M, ML, L, XL	Recommended	557	150
	Maximum	567	160

Recommended sag: Refer to the suspension set-up card included with your bike or the suspension calculator at <u>Trekbikes.com/suspension-calculator</u>.