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### Safety

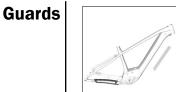


Safety

# Rear axle



Rear axle



**Guards and covers** 

### **Routing**



Brake and rear shift routing



Seat postSeat post dropper post routing



Speed sensor routing



Battery and remote routing

### Motor and battery



Charge port cover



Motor guard



Motor parts



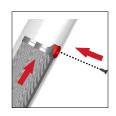
Lower the motor



**Battery parts** 



Remove the battery



Install the battery

### Mudguards and racks



Rear mudguard – 29" wheel



Rear rack – 29" wheel



Rear mudguard – 29" wheel



Rear rack – 27.5" wheel

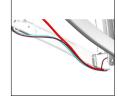


Rear mudguard – 27.5" wheel

Light routing (optional)



Rear light routing – through the mudguard



Rear light routing – through the chain-



Front light routing





**Specifications** 

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### Safety



#### WARNING

#### 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.

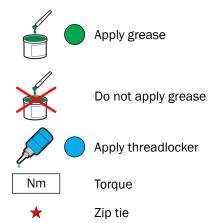


#### **WARNING**

#### 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.

## Legend



## Scope

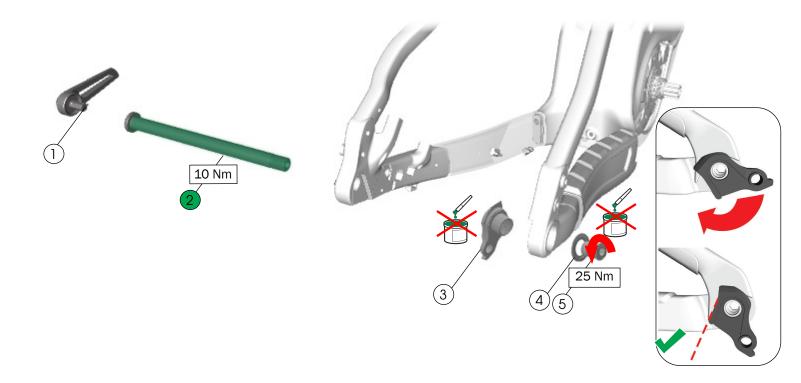
This manual contains parts diagrams, specifications (such as grease and torque values), instructions and helpful tips. It does not contain instructions for all components (such as brake callipers). Refer to the original manufacturer for more information.

### **Additional resources**

- Bosch Purion remote quick start guide: <u>trekbikes.com/manuals</u>
- Bosch E-bike Owner's Manual: <u>trekbikes.com/manuals</u>
- Trek's YouTube channel: <u>youtube.com/trekbikes</u>

### Rear axle

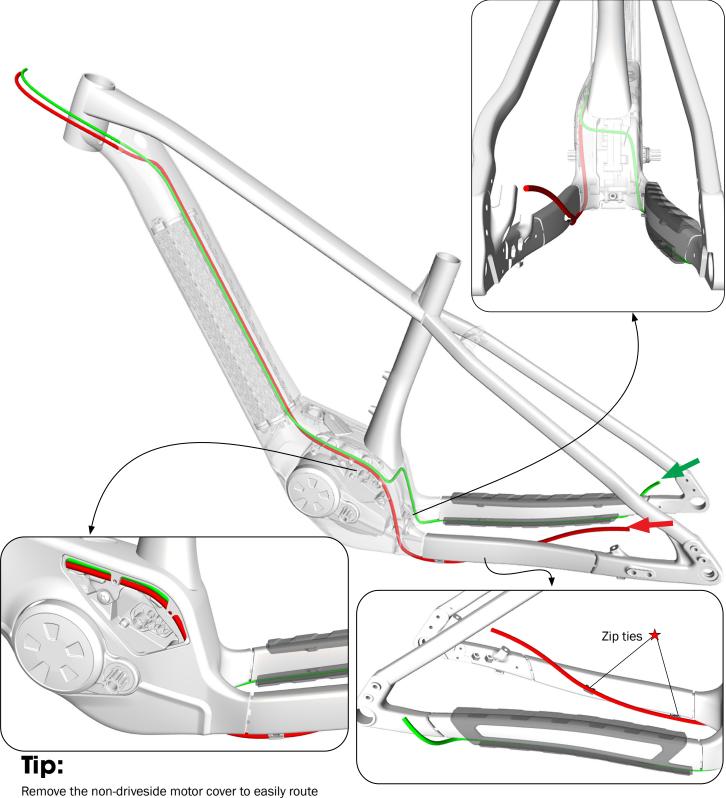
This bicycle frame is designed to use a Universal Derailleur Hanger (UDH). For additional information about the UDH, refer to the SRAM user manual at <u>sram.com.</u>



- 1 Switch lever W573860
- 2 Thru axle, 12 mm W600321
- 3 Dérailleur hanger **NOTICE:** Do not apply grease.
- Washer, 25 mm
- **NOTICE:** The washer is frame-specific. Install only the washer size specified.
- NOTICE: Do not apply grease. Do not overtighten. Overtightening may damage the hanger.

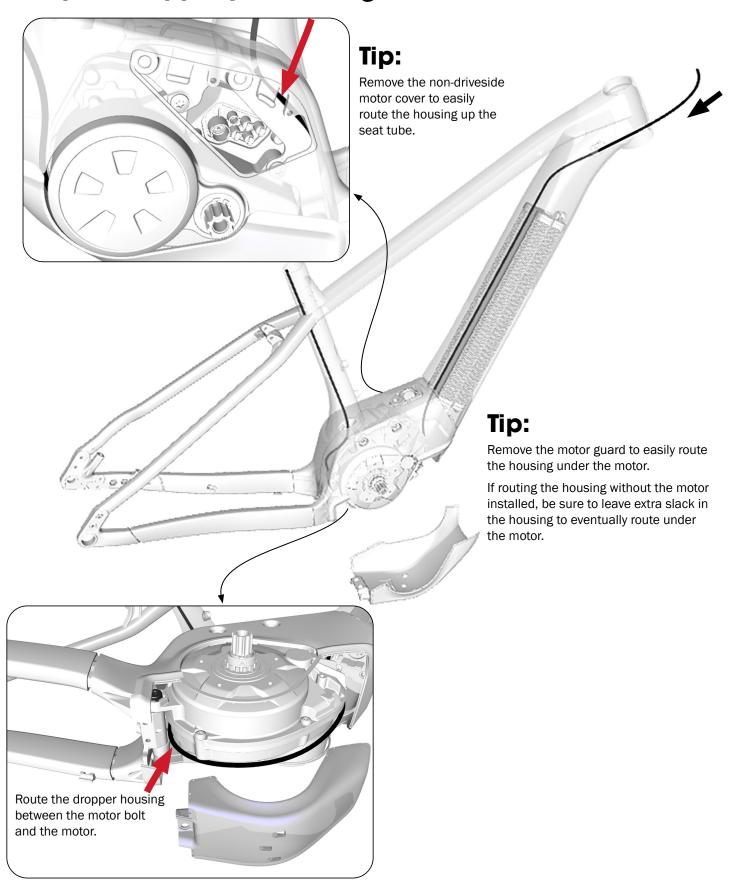
- W5271425

# Brake and rear shift routing

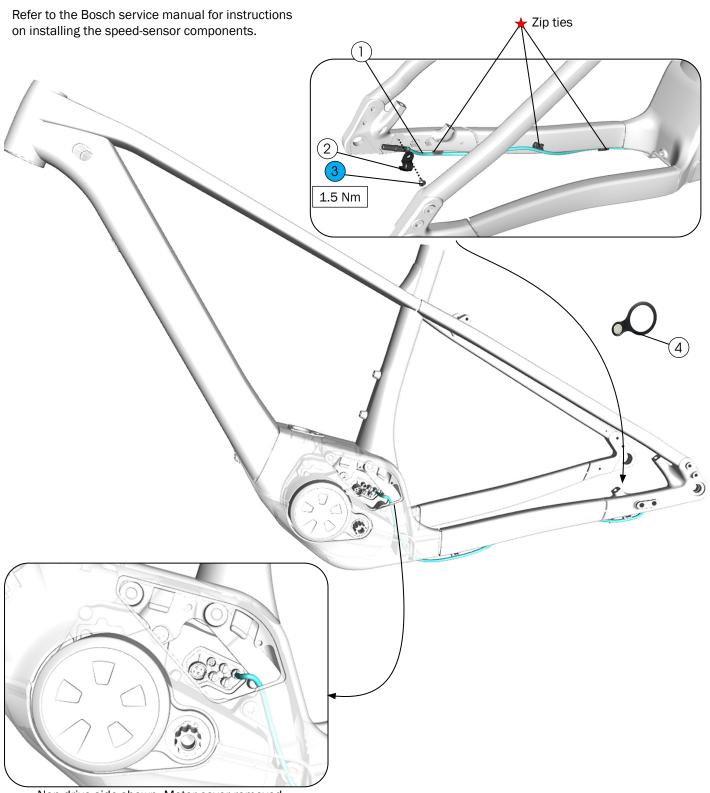


Remove the non-driveside motor cover to easily route the brake hose and rear shift housing.

# Seat post dropper post routing



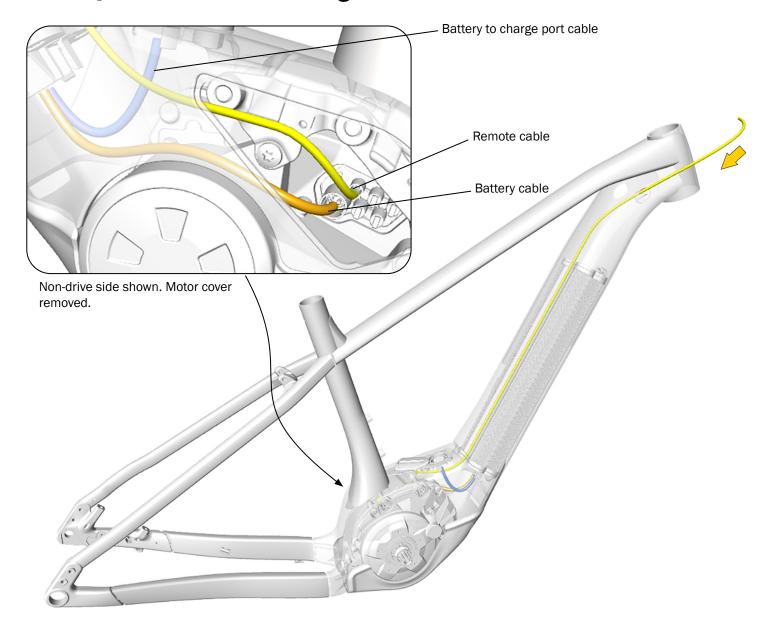
## **Speed sensor routing**



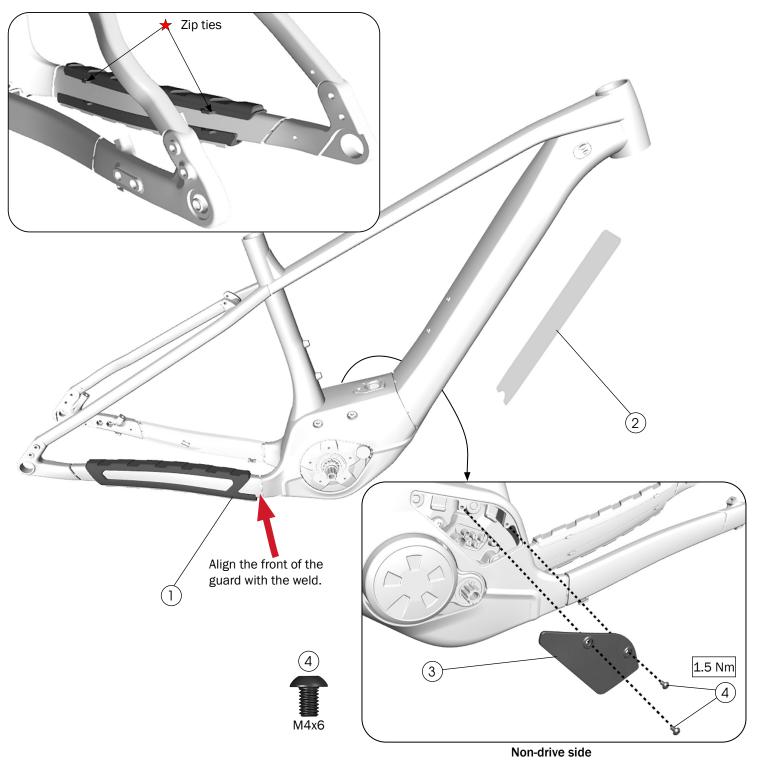
Non-drive side shown. Motor cover removed.

- Speed sensor cable:
  Bosch part number EB11.200.011
  Trek part number (available in some markets) 5318757
- 2) Speed sensor clip, Bosch part number 1270.016.038
- 3 Fastener, M4x6 mm W575056
- (4) Speed sensor magnet 599404

# **Battery and remote routing**



## Frame guards and covers



- Chainstay guard W5308950
- (2) Downtube guard W5312189

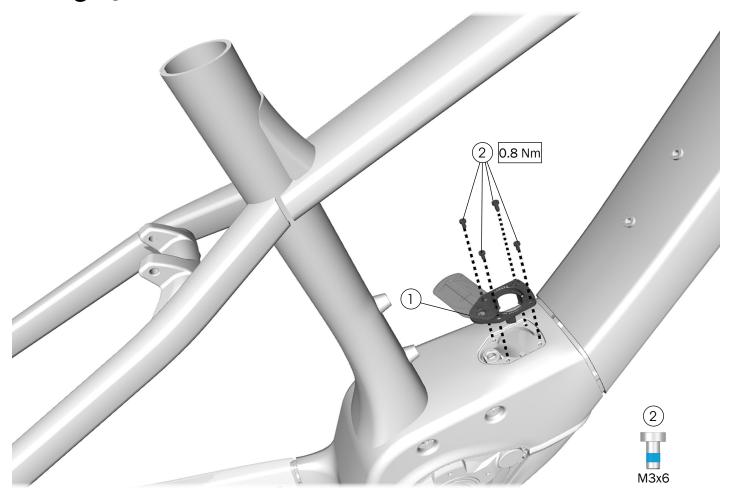
Use isopropyl alcohol to clean the frame surface where the guard is attached. Wait for the alcohol to dry before applying the guard.

**NOTICE:** Do not clean the entire frame with isopropyl alcohol. Isopropyl alcohol could damage the paint.

- Motor access cover 5312747
- Fasteners, M4x6 W575056 NOTICE: Maximum fastener length is 6 mm. Longer

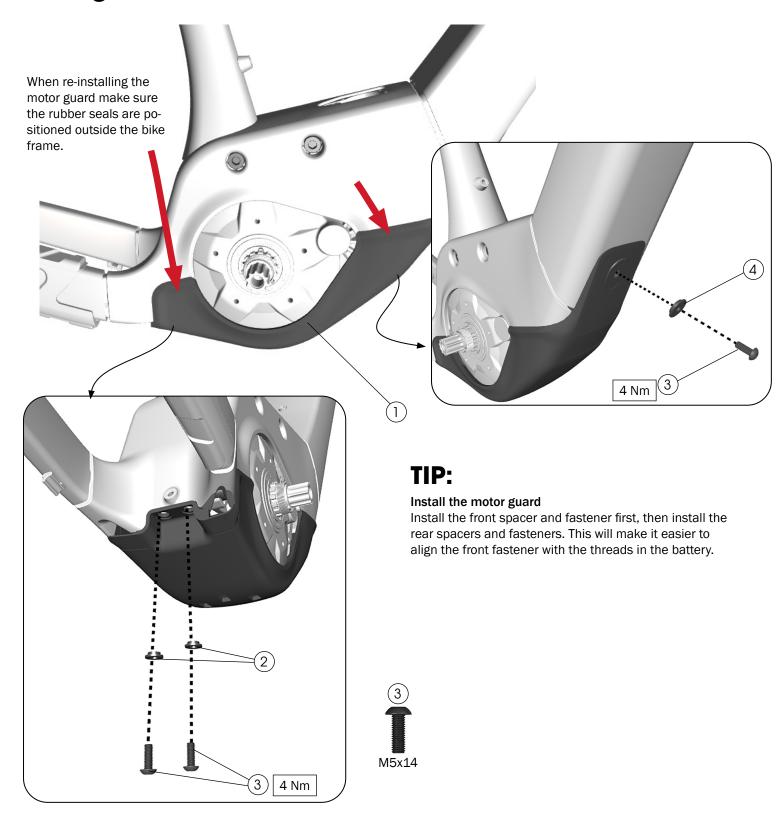
fasteners could damage the brake hose and rear shift housing.

# Charge port cover



- 1 Charge door assembly W5312791
- 2) Fasteners, M3x6 W5276241

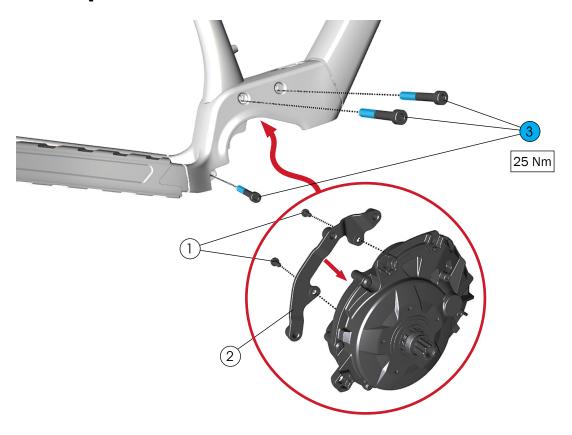
## **Motor guard**



- 1 Motor guard W5306871
- 2 Hat-style spacers W5272256

- (3) Fasteners, M5x14 W5314651
- 4 Hat-style spacer W5315181

# **Motor parts**



- 1 Motor mount bracket fasteners Bosch part number. Refer to Bosch service information.
- 2 Motor mount bracket W561438
- 3 Motor fasteners, M8x60 5251047

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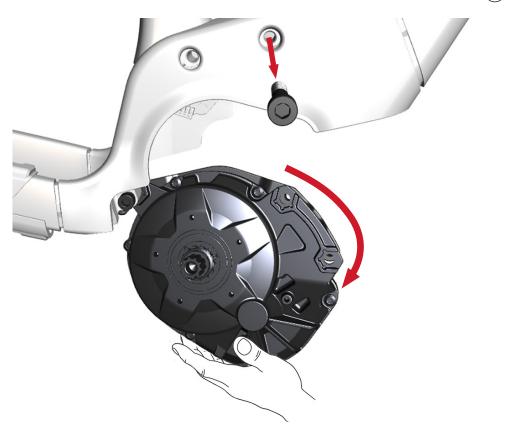
## Lower the motor

For access to routing and battery connections the motor can be lowered, rather than completely removed.

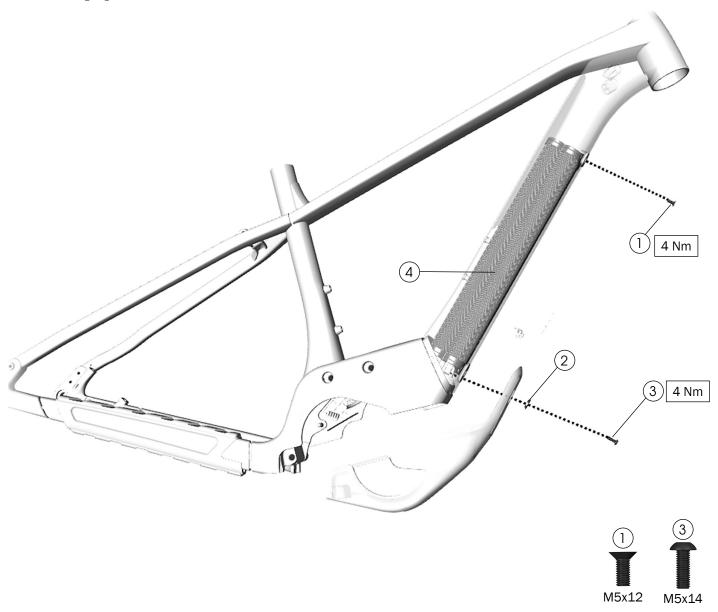
- 1. Remove the seat post dropper lever from the handlebar. This will create slack in the seat post dropper routing so the routing can be repositioned to allow the motor to be lowered.
- 2. Remove the motor guard. See Motor guard on page 10.
- 3. Loosen bolts (1) and (3) Remove bolt (2).



- 4. Support the motor with one hand and use your other hand to remove bolt (3).
- 5. Slowly lower the motor. The motor will hang from the frame by the remaining bolt (1).



## **Battery parts**

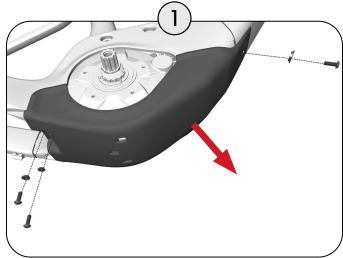


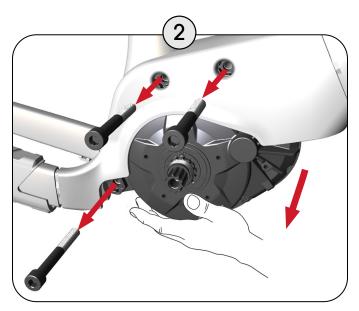
- 1) Fastener, M5x12 W5314650
- (2) Washer W5315181
- (3) Fastener, M5x14 W5314651
- Battery, horizontal fixed mount Bosch part numbers:
  US EB12.100.046
  EU/AUS/NZ EB12.100.048

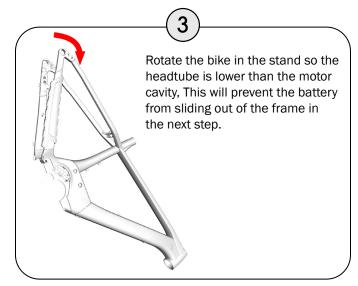
## Remove the battery

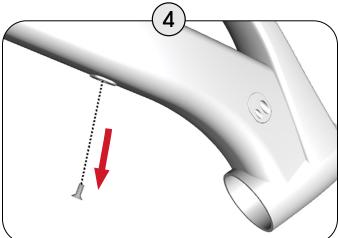
**NOTICE:** Only professional bike mechanics should remove the battery.

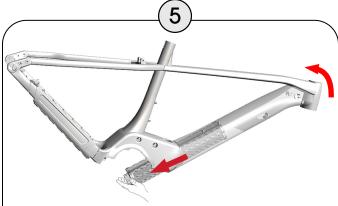
**Tip:** Before beginning this procedure remove the seat post dropper lever from the handlebar. This will create slack in the hosing that runs under the motor and make it easier to remove the motor.





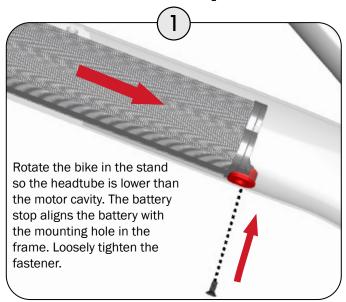


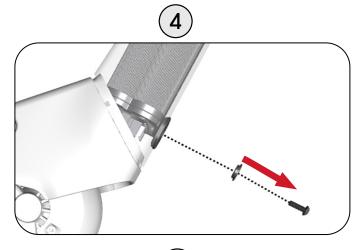


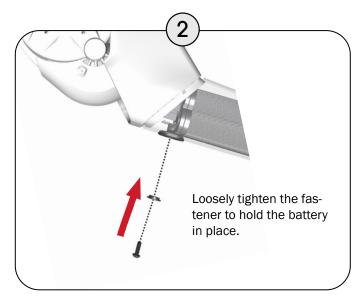


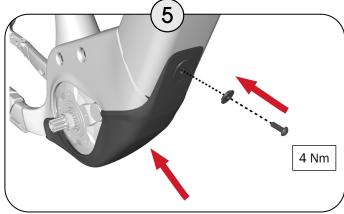
The battery is now loose in the frame. Place one hand below the downtube to catch the battery. Use the other hand to rotate the bike in the stand. The battery will slide out of the downtube.

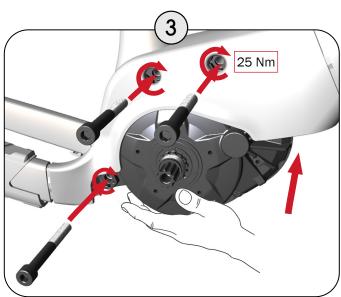
## Install the battery

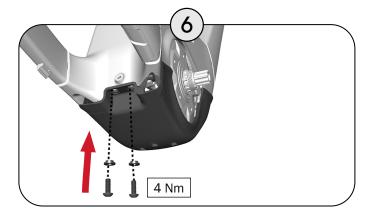


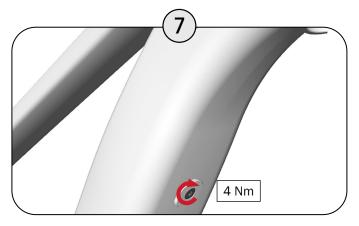




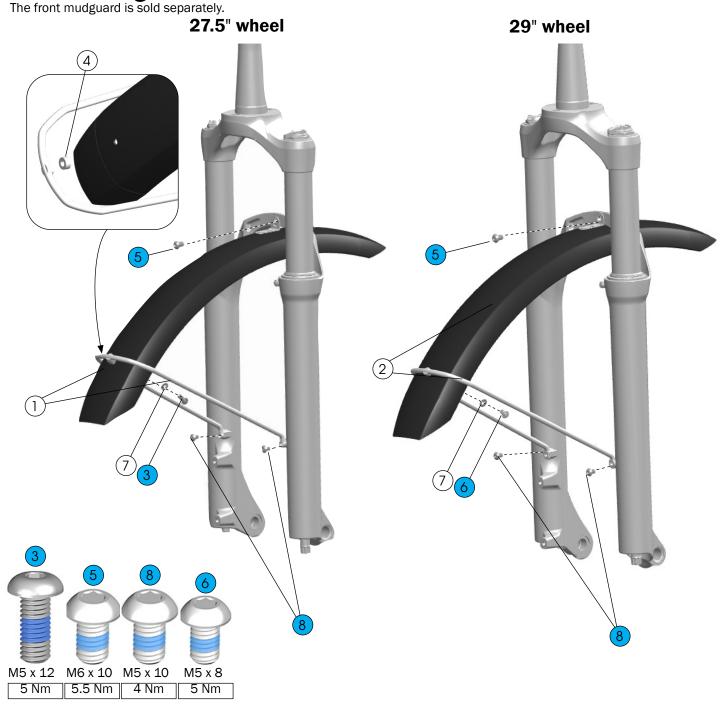








# Front mudguard The front mudguard is sold separately.



- Tront mudguard and strut, 27.5" 601256
- (2) Front mudguard and strut, 29" 601257
- 3 Screw, M5 x 12 mm, stainless steel W584855
- (4) Washer, nylon 5319894

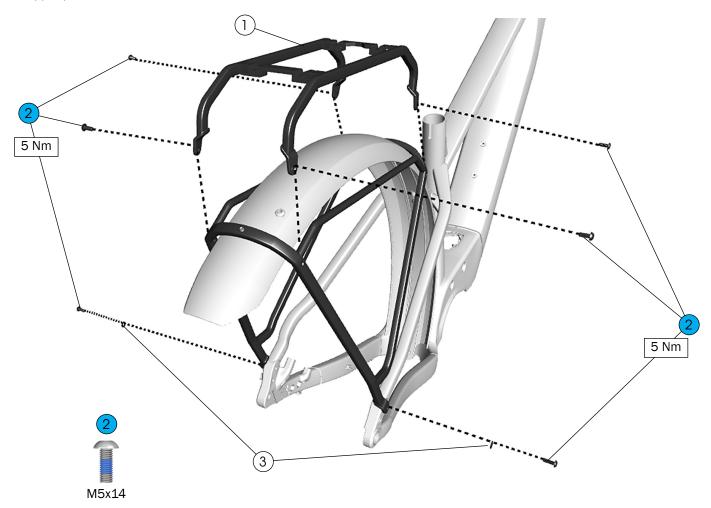
- Bolt, M6 x 10 mm, stainless steel
  (a longer bolt may be required if using a light mounting bracket)
- 6 Bolt, M5 x 8 mm, stainless steel
- 7 Washer, M5 x 1 mm, stainless steel
- 8 Bolts, M5 x 10 mm, stainless steel W549305

- 601267

<sup>\*</sup>Mudguard parts for the 29" wheel are only compatible with the originally equipped SR SUNTOUR or RockShox fork.

## Rear rack - 29" wheel

The rear rack is sold separately. Proper installation requires the mudguard to be installed with the lower portion of the rack. The upper portion of the rack is detachable.



1 Rear rack

2 Fasteners, stainless steel, M5 x 14 mm

(3) Washers, stainless steel, M5 x 1 mm

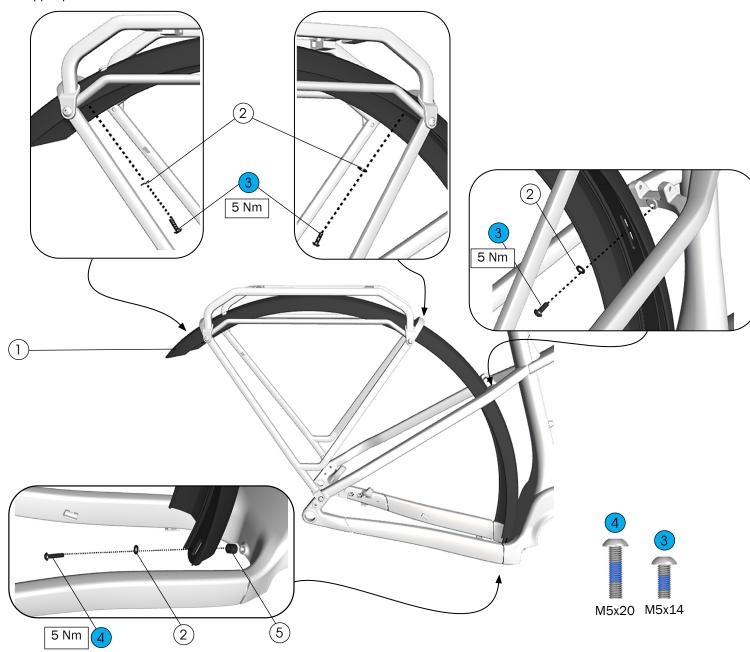
- W5289962

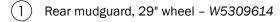
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## Rear mudguard - 29" wheel

The rear mudguard is sold separately. Proper installation requires the mudguard to be installed with the lower portion of the rack.

The upper portion of the rack is detachable.







3 Fasteners, stainless steel, M5 x 14 mm

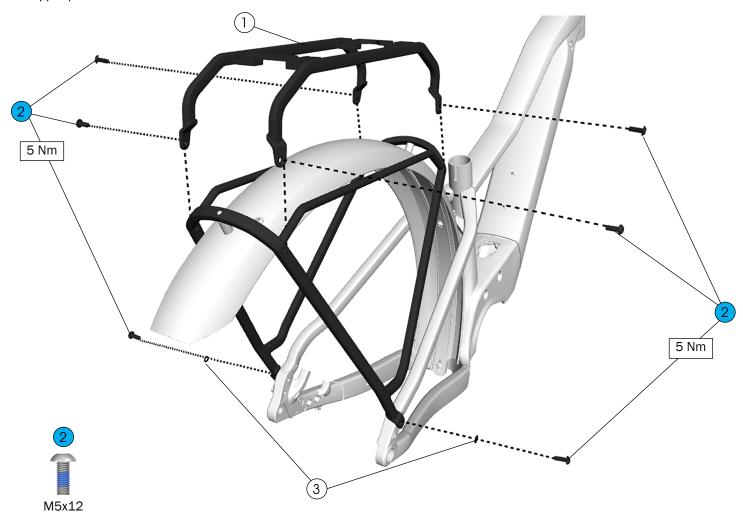
4 Fastener, stainless steel, M5 x 20 mm

(5) Spacer, aluminium, 7.5 mm

- 5315939

### Rear rack - 27.5" wheel

The rear rack is sold separately. Proper installation requires the mudguard to be installed with the lower portion of the rack. The upper portion of the rack is detachable.



- 1 Rear rack
- 2 Fasteners, stainless steel, M5 x 14 mm

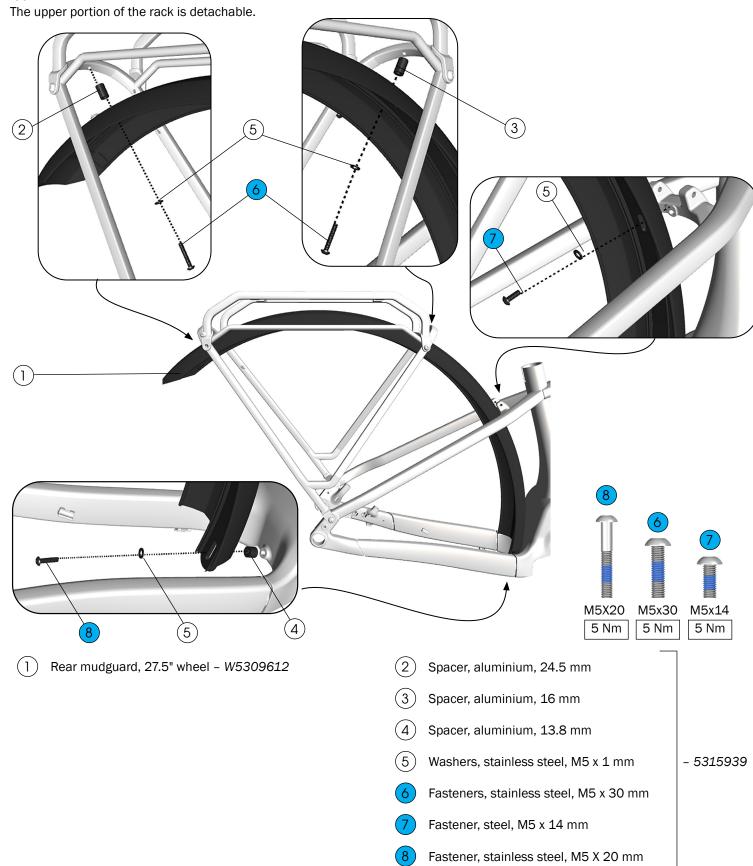
Washers, stainless steel, M5 x 1 mm

- W5289962

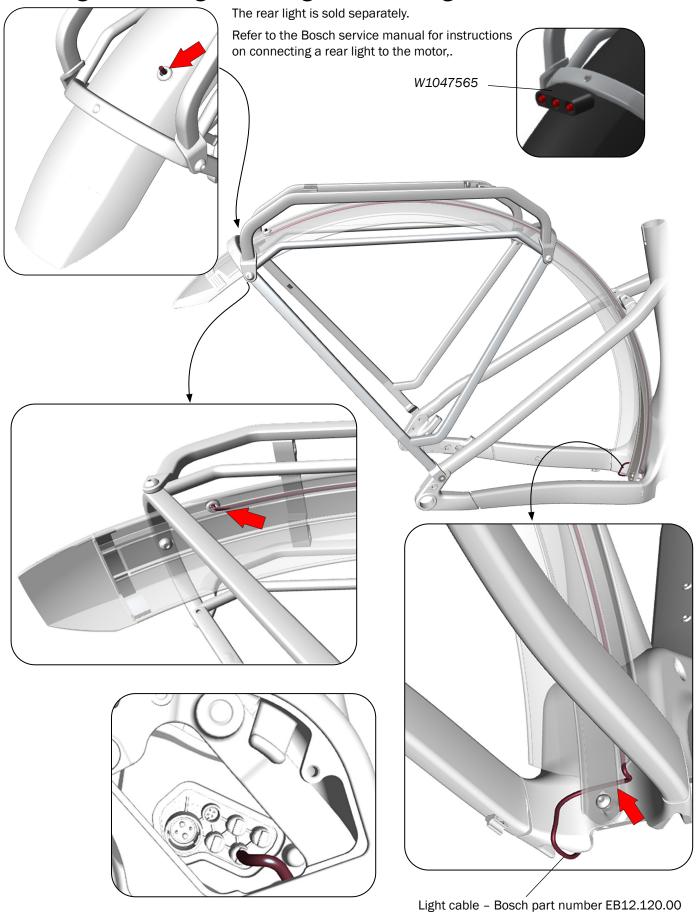
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## Rear mudguard - 27.5" wheel

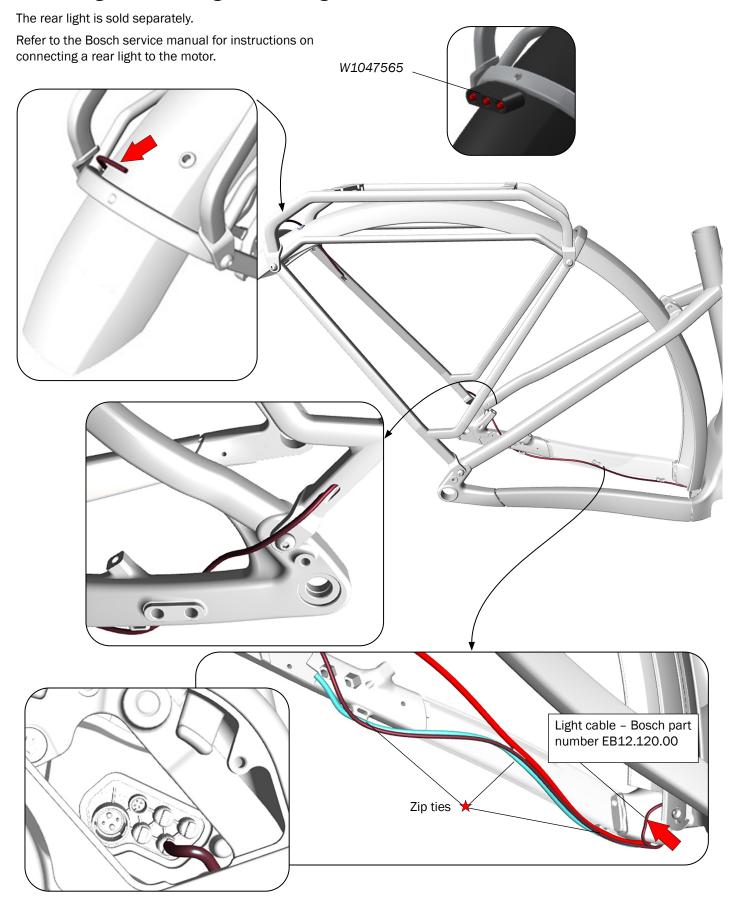
The rear mudguard is sold separately. Proper installation requires the mudguard to be installed with the lower portion of the rack.



# Rear light routing - through the mudguard



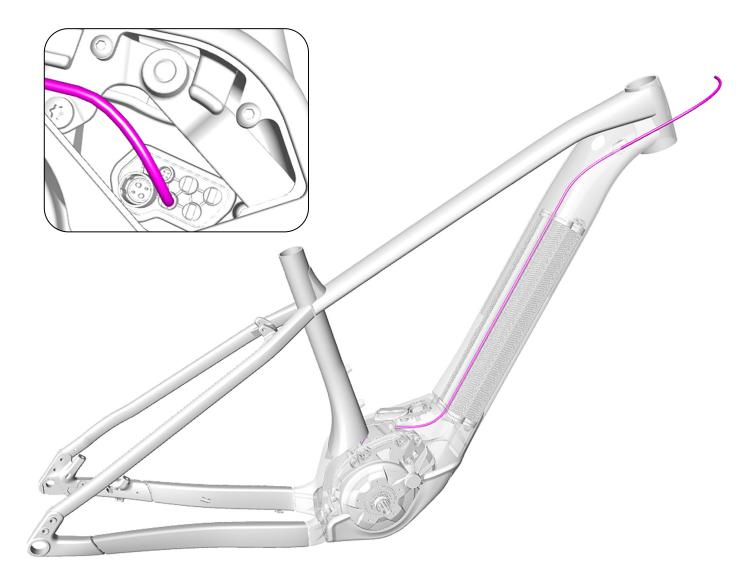
# Rear light routing - through the chainstay



## Front light routing

The Marlin+ does not feature dedicated routing for a battery-connected front light. However, a rider could choose to remove the dropper post and instead install an motor-connected front light.

Refer to the Bosch service manual for voltage requirements and instructions for connecting a front light to the motor.



### **Specifications**

#### Chain line (1x only)

52 mm

### Chain ring (1x only)

Minimum	Maximum
32T	36T

Oval rings of any size are not recommended as they will affect motor performance and the ring will damage the chainstay.

#### Rear brake mount

Minimum	Maximum
180 mm, direct mount	Adaptable to 203 mm

#### **OLD**

Rear Hub: 148 mm

#### Maximum tyre size

Note: The Marlin+ is not designed for mixed wheel sizes.

**XS, S:** 27.5" x 2.6" (2.4" with mudguards) **M, L, XL:** 29" x 2.6" (2.4" with mudguards)

**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



#### WARNING

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: Refer to seat post manufacturer

Maximum insertion

Extra Small: 210 mm

Small: 240 mm Medium: 290 mm Large: 320 mm Extra Large: 370mm

Seat tube inside diameter: 31.6 mm

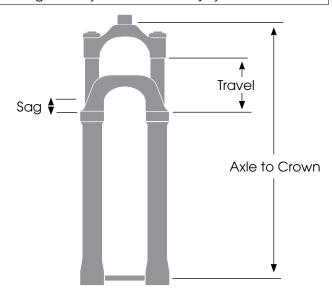
Seat tube post-clamp outer diameter: 36.4 mm

#### **Fork**



#### **WARNING**

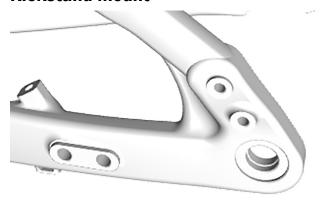
Exceeding the recommended maximum fork length could damage the bicycle and result in injury to the rider.



Frame/Size	Axle to Crown (mm)		Travel (mm)
XS	Recommended	492	100
	Maximum	504	110
S	Recommended	512	120
	Maximum	524	130
M, L, XL	Recommended	531	120
	Maximum	543	130

**Recommended sag:** Refer to the suspension calculator at *Trekbikes.com/suspension-calculator*.

#### **Kickstand mount**



Compatible kickstand — W330289

