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# 2023 Powerfly HT

Sport EQ 4 and Sport EQ 7 Gen 3

# 4, 5 and 7 Gen 4

SERVICE MANUAL Rev 1 October 2023

# Contents



**Safety** 



Thru axle and derailleur hanger



Cable routing

A WARNING

injury to the rider.

A

Properly tighten hardware

WARNING

Reapply threadlocker

**Safety** 



Rear fender and rack - 29" wheel



Rear fender and rack - 27.5" wheel



Front fender

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

All reused-fasteners with pre-applied threadlocker must be cleaned with isopropyl alcohol and have new threadlocker applied before re-assembly. If threadlocker is not

applied, the fasteners may loosen which could damage

the bicycle and result in injury to the rider.



RIB - battery assembly



RIB – docking assembly



Remote and displays



Drive unit and mounting bolts



Battery charge port <u>cover</u>



Speed sensor

Legend



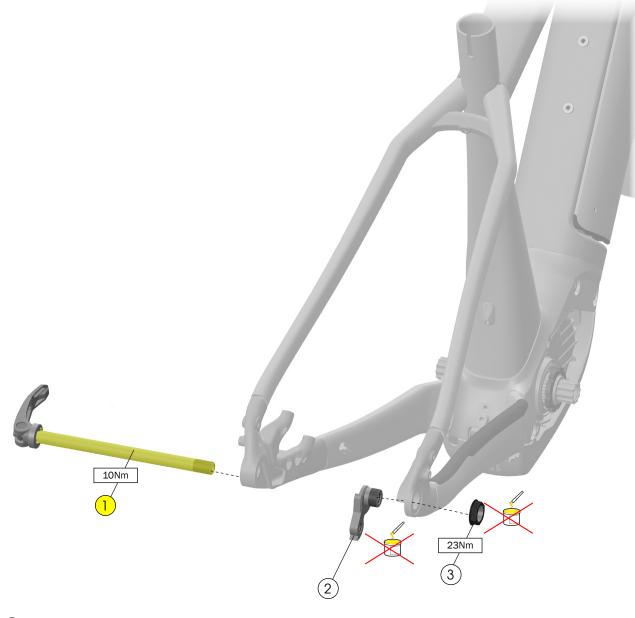




**Specifications** 

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# Thru axle and derailleur hanger



Thru axle, 174mm – <u>W518983</u>

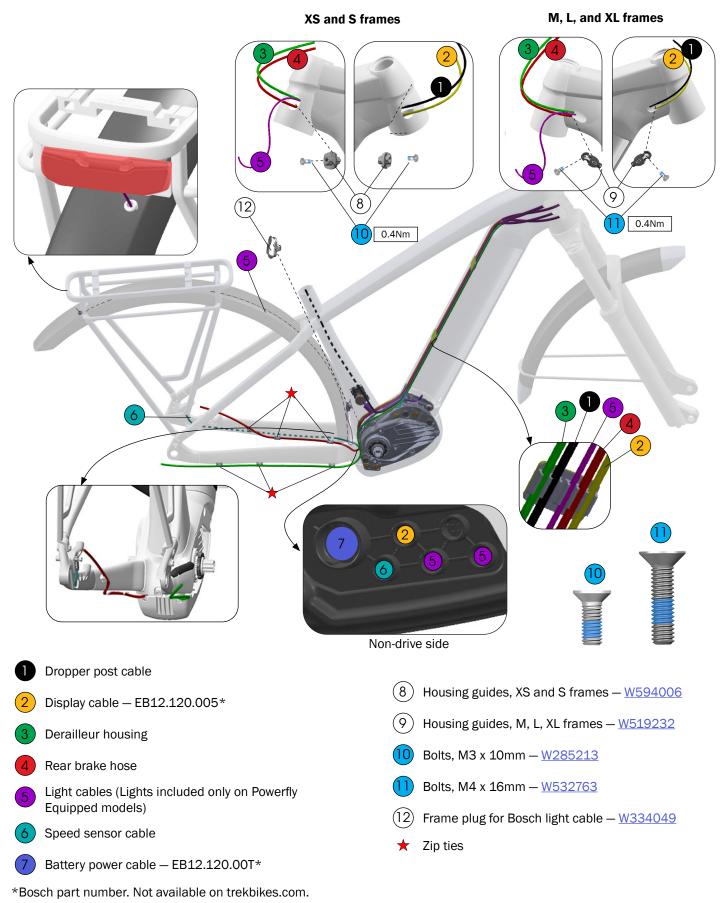
(1)

- (2) Derailleur hanger <u>W572370</u>

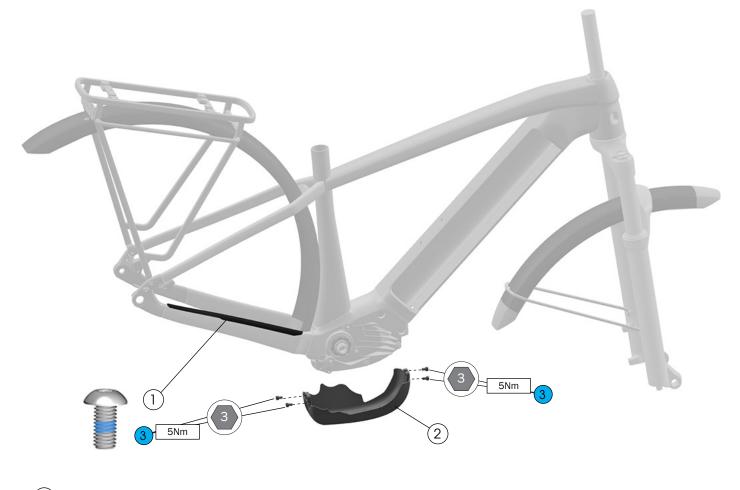
### Tools

- Grease
- Torque wrench with 20mm socket

# **Cable routing**



# Frame guards



(1) Chainstay guard – <u>W591958</u>

(2) Drive unit guard – <u>W5272058</u>

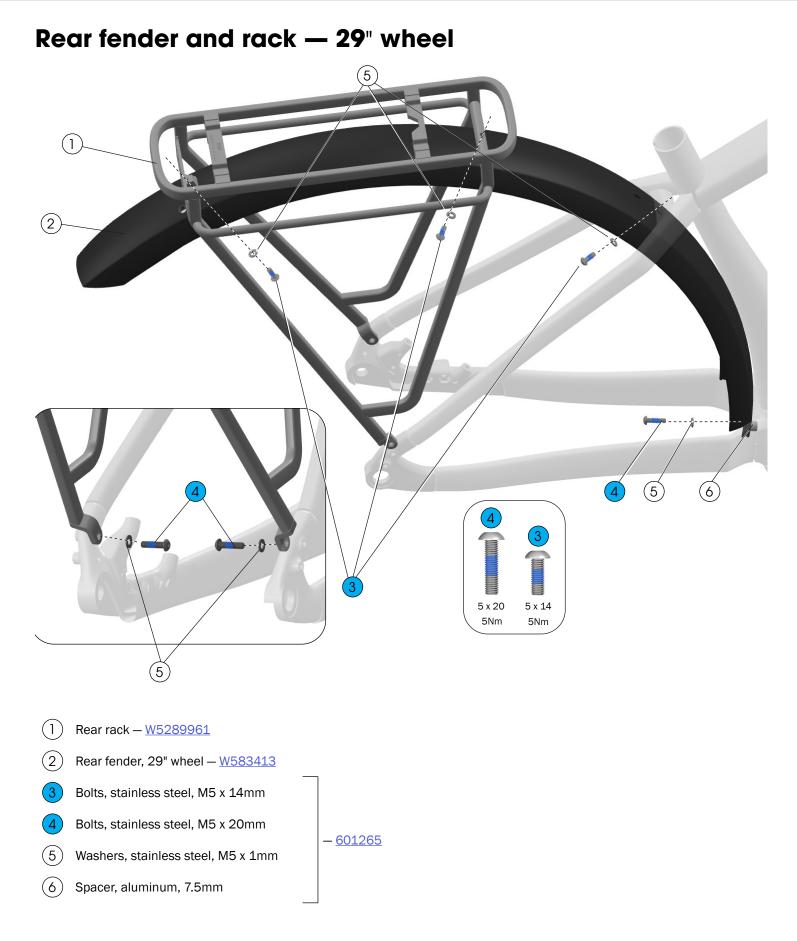
3

Screws, stainless steel, M5 x 10mm – <u>W549305</u>



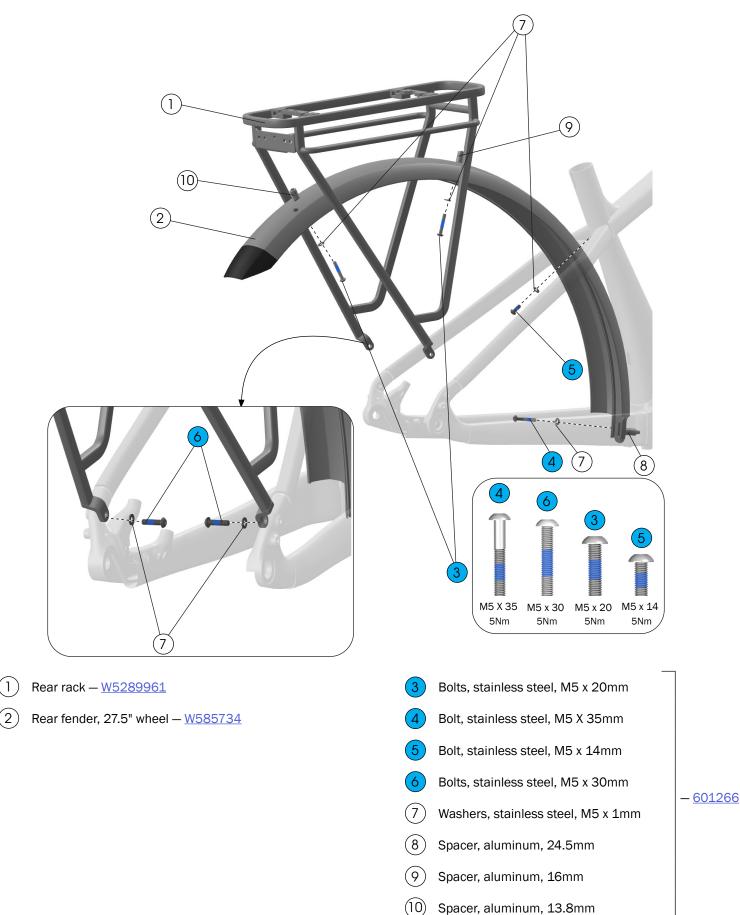
Use isopropyl alcohol to clean the frame surface where the guard attaches. Wait for the alcohol to dry before applying the guard.

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

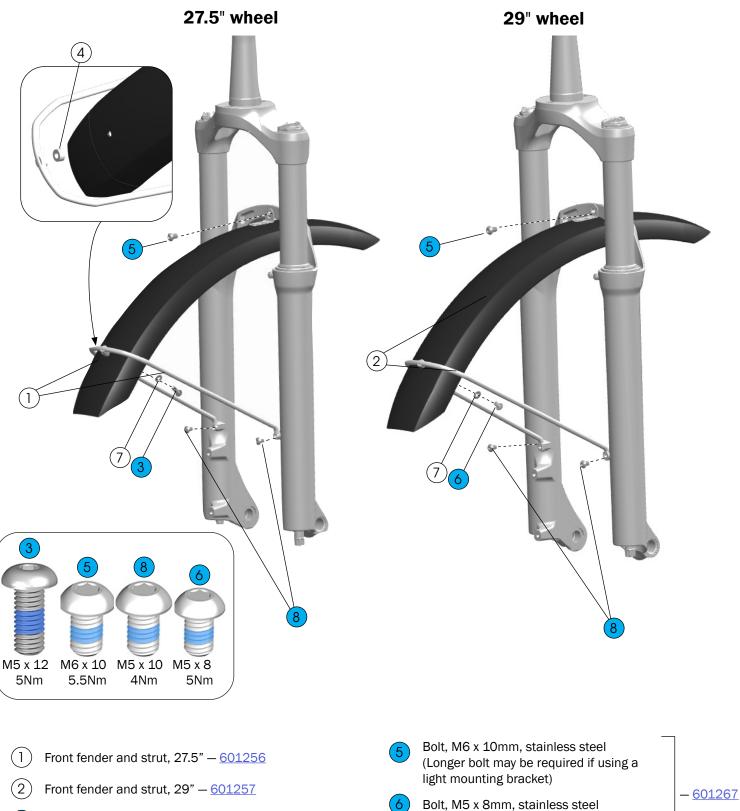


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# **Front fender**



(7)

- 3 Screw, M5 x 12mm, stainless steel <u>W584855</u>
- (4) Washer <u>5319894</u>

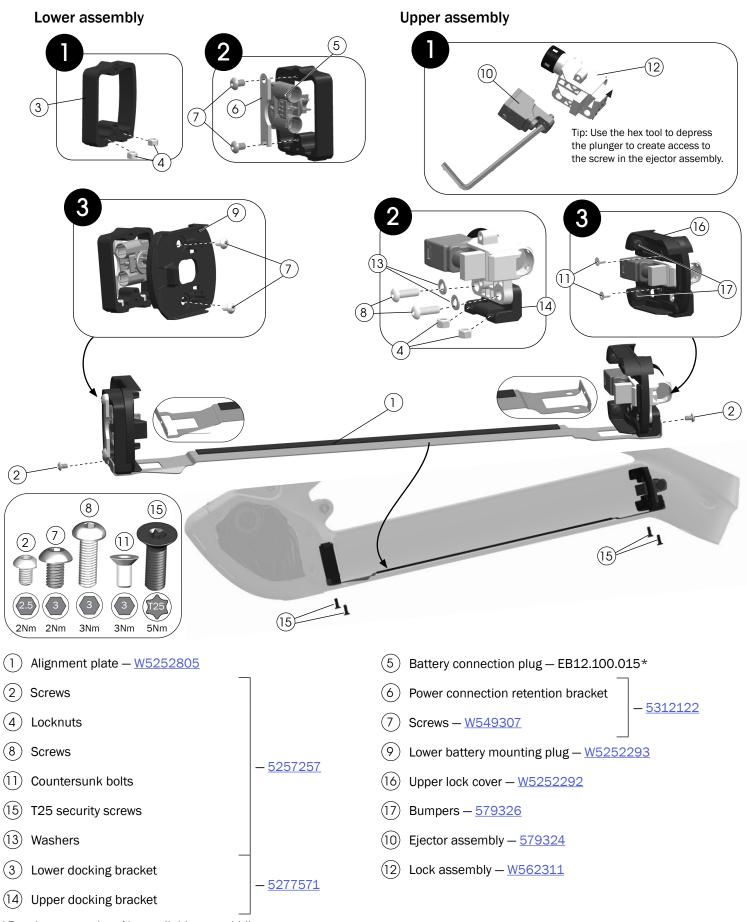
Bolts, M5 x 10mm, stainless steel – <u>W549305</u>

Washer, M5 x 1mm, stainless steel



\*Bosch part number. Not available on trekbikes.com.

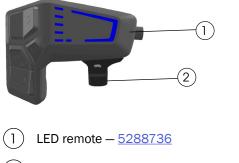
# **RIB** — docking assembly



\*Bosch part number. Not available on trekbikes.com.

# **Remote and displays**

### **LED** remote



(2) LED remote universal clamp – 5288743

### **Kiox 300**



Kiox 300 – <u>5288735</u>

### Intuvia 100

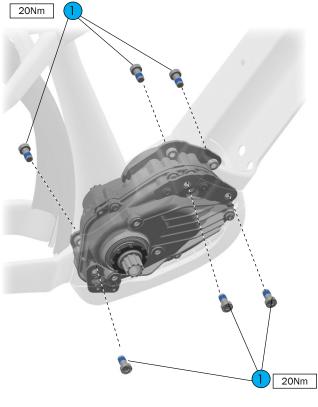


Intuvia 100 – EB13.100.00F \*Bosch part number. Not available on trekbikes.com.



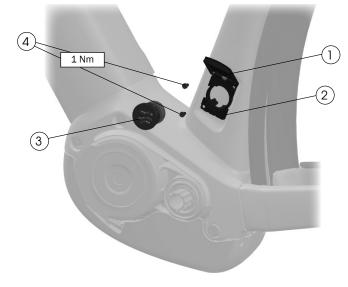
# **Drive system components**

### Drive unit and mounting bolts



Mounting bolts, TP40 – <u>5265419</u> (Bosch 1270.016.470)

3 Rotor mount speed sensor magnet – <u>W5252927</u>



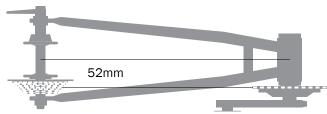
### Battery charge port cover

- $(1) \ \ Charge port cover \frac{44372}{5} \\ Search \underline{trekbikes.com} to find the color-matched part for your bike.$
- (2) Base <u>W5251862</u>
- (3) Charge socket EB12.120.04A\*
- (4) Bolts, M3 x 6mm <u>5284849</u>

\*Bosch part number. Not available on trekbikes.com.

# **Specifications**

# Chainline (1x only)



• Boost hub with offset chainring.

# Max chainring (1x only)

• 38T

### **Rear brake mount**

Minimum	Maximum	
180mm, direct mount	Adaptable to 203mm	

### **Maximum tire size**

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

Frame size	Maximum tire size	
XS, S	27.5″ x 2.6"	
M, L, XL	27.5" x 2.8", 29" x 2.6"	

# Water bottle fit

**XS and S:** Maximum 15 oz bottle on seat tube and 21 oz bottle down tube.

# Seat post

# WARNING

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

### Measurement

Maximum insertion	Frame			
	XS	232mm		
	S	265mm		
	М	291mm		
	L	341mm		
	XL	392mm		
Seat tube inside diameter		31.6mm		
Seat tube post clamp outer diameter		36.4mm		

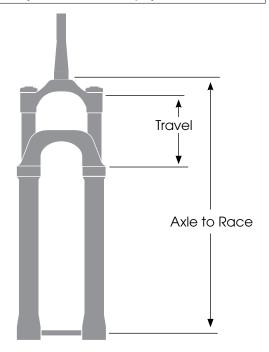
### Fork

Refer to the suspension setup card included with your bike or the suspension calculator at

Trekbikes.com/suspension-calculator.

### 

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



Frame size	Axle to Race (mm)		Travel (mm)
XS, S	Recommended	455	80
	Maximum	492	100
M, L, XL	Recommended	509	100
	Maximum	526	120