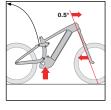


Rev 2 September 2023

Contents



Headset with Knock Block



Adjust the geometry



Cable routing with System Controller



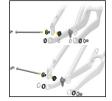
System controller and mini remote



RIB — docking assembly



Battery charge port



Active Braking Pivot
(ABP)



Main pivot and chainstay



Cable routing with LED Remote



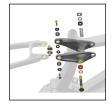
Display cover and LED remote



Drive unit and mounting bolts



Specifications



Rocker pivot and seatstay



Shock mounts



Frame guards and water bottle cage bolts



RIB — battery assembly



Speed sensor

Safety



WARNING

Properly tighten hardware

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

Reapply threadlocker

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.

Legend





Apply grease



Do not apply grease





Apply threadlocker



Torque



Hex tool size



Torx tool

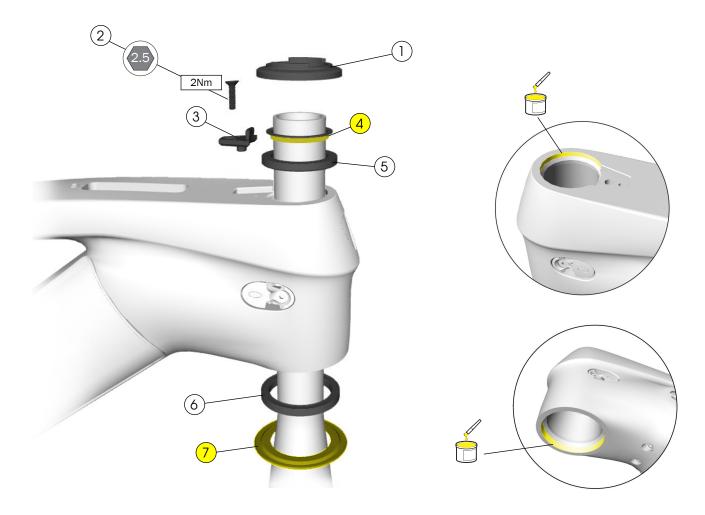


Drift size



Zip tie

Headset with Knock Block



- 1 Upper bearing cover
- 2) Chip bolt <u>W532763</u>
- (3) Knock Block chip
- 4 Compression ring W532842
- 5 Upper bearing <u>W531676</u>
- 6 Lower bearing, 1.8" diameter W5269809
- Crown race, for 1.5" diameter lower bearing (Rail 9.5) W5269810

 Crown race, for 1.8" diameter lower bearing Rail 9.7, 9.8, 9.9) W5283203

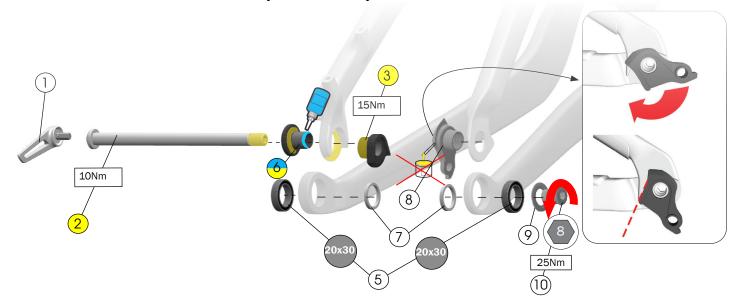
Tools

- 2.5mm hex tool
- Grease

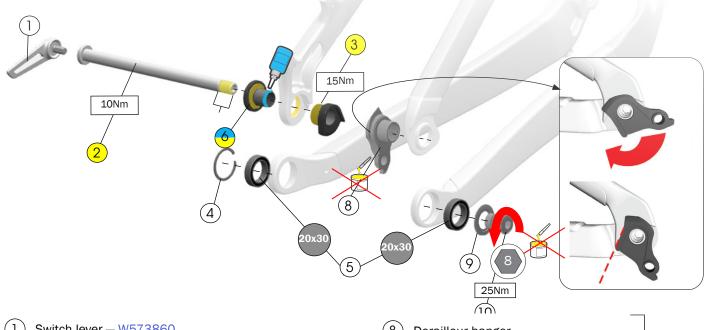
-5252161

Active Braking Pivot (ABP)

Rail 9.8 and Rail 9.9 — Carbon seatstay and chainstay



Rail 9.5 and Rail 9.7 — Alloy seatstay and chainstay



- Switch lever W573860
- Thru axle <u>W583470</u>
- Non-driveside ABP dropout nut W583419
- Retaining ring W5251279
- Bearings <u>W583424</u>
- Non-driveside ABP bolt W583420
- Spacers <u>W583422</u> (carbon chainstays only)

- Derailleur hanger
- Washer
- Bolt (left-hand thread)

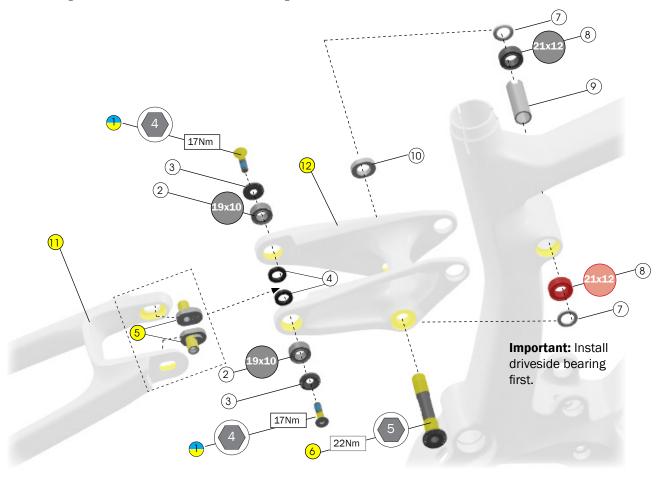
Tools

- <u>599911</u>

- Bearing press, 20x30 drift
- Cassette lockring tool
- Grease
- 8mm hex tool
- Torque wrench (left-hand thread) with 8mm hex bi

- W5271425

Rocker pivot and seatstay



- Bolts <u>W5270150</u>
- 2 Bearings <u>W5256339</u>
- (3) Concave washers W5289553
- (4) Spacers <u>W529969</u>
- 5 Mino links <u>W5270028</u>
- 6 Rocker axle <u>W600627</u>
- (7) Spacers <u>W290057</u>
- 8 Bearings <u>W5256341</u>
- 9 Seat tube pivot sleeve <u>W310155</u>
- (10) Nut <u>W311582</u>

- Seatstay, carbon -30893Seatstay, aluminum -35491Search trekbikes.com to find the color-matched part for your bike.
- Rocker link <u>30969</u>. Search <u>trekbikes.com</u> to find the color-matched part for your bike.

Tools

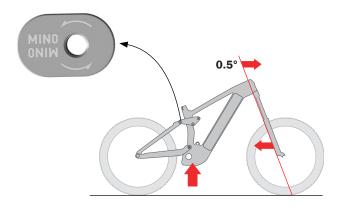
- Bearing press, 19x10 and 21x12 drifts
- 4mm and 5mm hex wrenches
- Torque wrench with 4mm and 5mm hex bits

Adjust the geometry

Flip the Mino links in the seatstay pivot to change the bike's geometry to fit your riding style or the terrain.

Notice: If using a 29" front wheel and a 27.5" rear wheel, the Mino links must be in the high position.

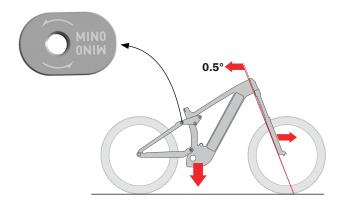
Steeper head tube angle



Mino links in the high position

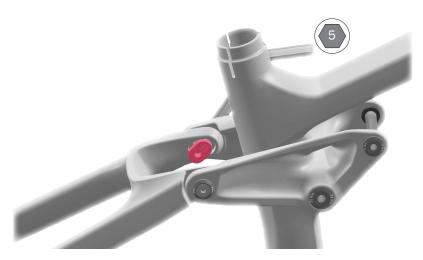
- · Pulls in the front fork for quicker steering
- · Raises the bottom bracket for improved climbing

Slacker head tube angle



Mino links in the low position

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



Tools

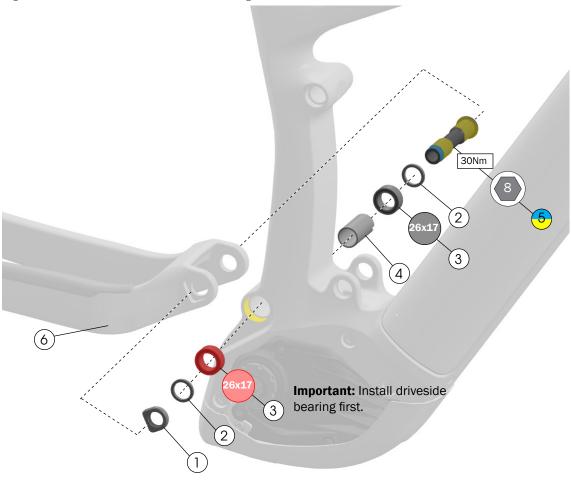
- 5mm hex tool
- Torque wrench with 5mm hex bit
- 1. With the bike on the ground, loosen and remove one Mino link chip.
- 2. Loosen and remove the other Mino link chip.
- 3. Position the bike:

Mino links high: Lift the bike by the seat tube. This will pull the rear triangle up and forward. **Mino links low:** With the chips removed, gravity will pull the rear triangle down and back.

- 4. Place one Mino link chip into the desired position. Slightly tighten the Mino link bolt.
- 5. Install the other Mino link chip into the same position. Slightly tighten the Mino link bolt.
- 6. Torque both Mino link bolts to 17Nm.



Main pivot and chainstay



- 1 Nut <u>W584134</u>
- 2 Spacers <u>W440921</u>
- (3) Bearings <u>W5256338</u>
- 4 Main pivot sleeve W500592
- 5 Main pivot axle <u>W601376</u>
- 6 Chainstay, carbon 30891
 Chainstay, aluminum 35490
 Search trekbikes.com to find the color-matched part for your bike.

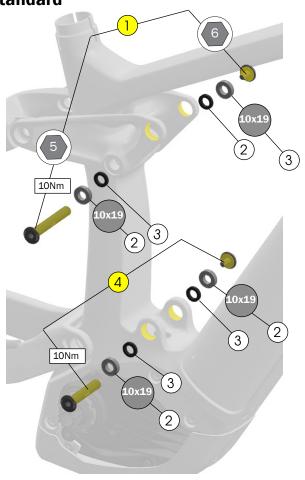
- <u>599909</u>

Tools

- Bearing press, 26x17 drift
- 8mm hex tool
- Torque wrench with 8mm hex bit
- Grease

Shock mounts

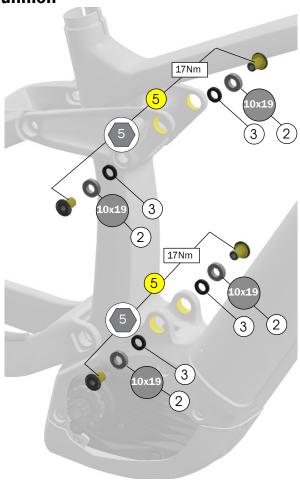
Standard



Tools

- Bearing press, 10x19 drift
- 5mm and 6mm hex wrenches
- Torque wrench with 5mm and 6mm hex bits
- 1 Standard upper shock mount bolt and end cap $-\frac{5258209}{}$
- (2) Bearings <u>W5256337</u>
- 3 Spacers <u>W529969</u>
- 4) Standard lower shock mount bolts 5258210
- 5 Thru shaft shock mount bolts W600630

Trunnion



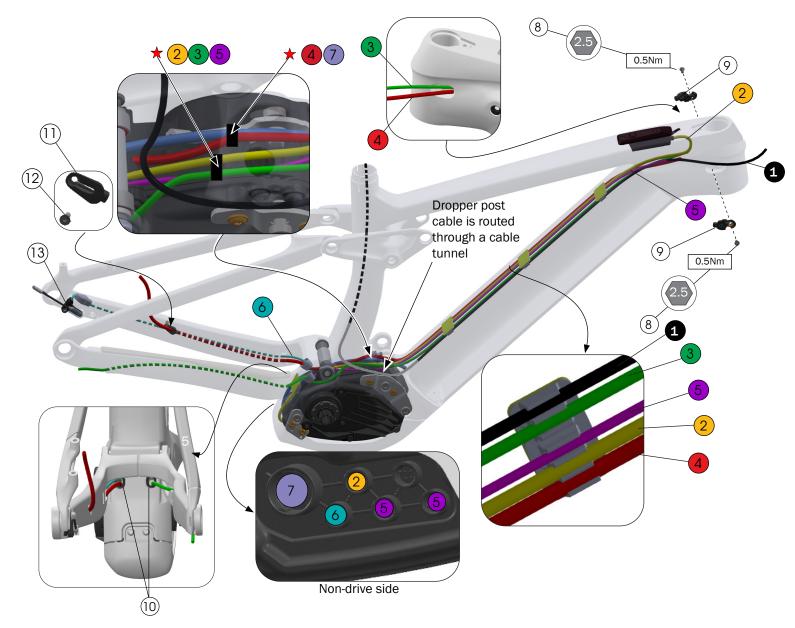
Dimensions



Shock Dimensions

Eye-to Eye-length: 230mm Stroke length: 57.5mm Upper width: 54mm Lower width: 40mm

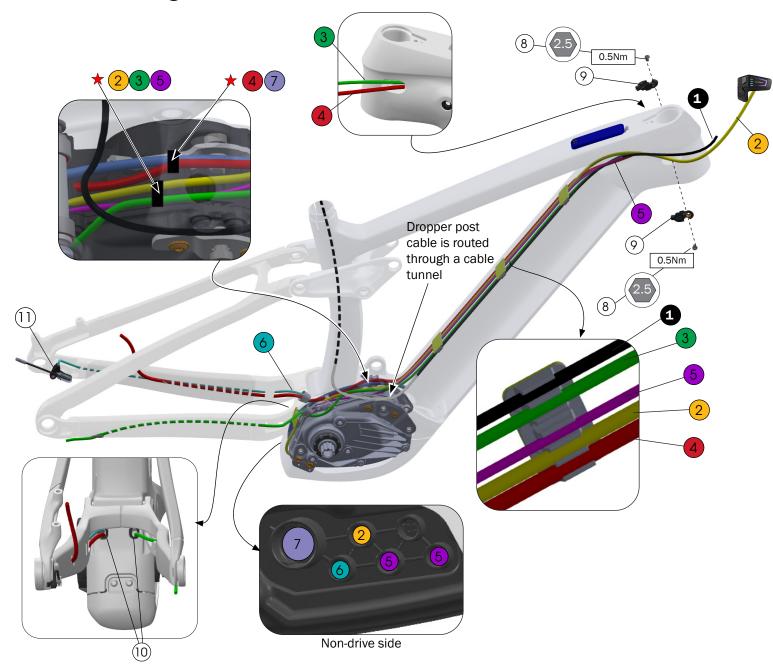
Cable routing — Rail 9.8 and 9.9 with System Controller

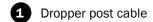


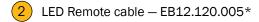
- 1 Dropper post cable
- 2 Controller cable EB12.120.006*
- 3 Derailleur housing
- 4 Rear brake hose
- 5 Light cable(s) (Lights not included)
- 6 Speed sensor cable
- 7 Battery power cable EB12.120.04A*
- *Bosch part number. Not available on trekbikes.com.

- 8 Flat head screws W532763
- 9 Cable guides <u>W519232</u>
- (10) Cable exit grommets <u>W5255861</u>
- (11) Grommet <u>W543605</u>
- (12) Countersink screw W524884
- 13) Speed sensor assembly See page 14.
- ★ Zip tie

Cable routing — Rail 9.5 and 9.7 with LED Remote





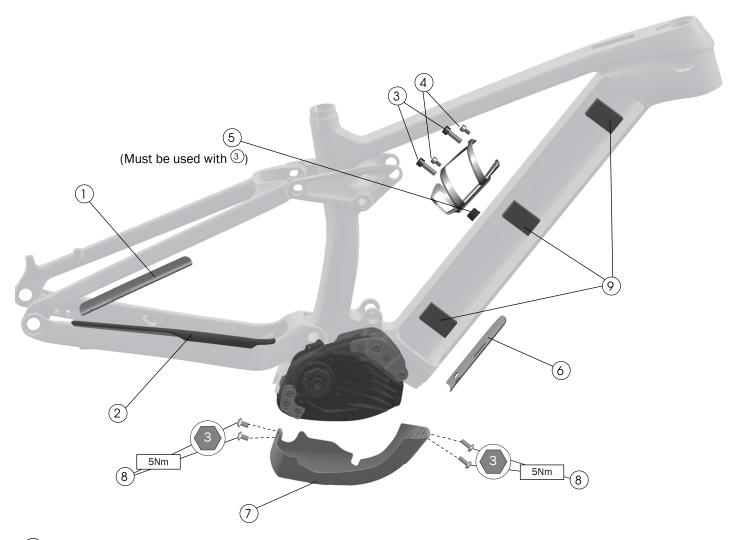


- 3 Derailleur housing
- 4 Rear brake hose
- 5 Light cable(s) (Lights not included)
- 6 Speed sensor cable

- 7 Battery power cable EB12.120.00T*
- 8 Flat head screws W532763
- 9 Cable guides <u>W519232</u>
- (10) Cable exit grommets W5255861
- (11) Speed sensor assembly See page 14.
- ★ Zip tie

^{*}Bosch part number. Not available on trekbikes.com.

Frame guards and water bottle cage bolts



- Seatstay guard W5255862
- Chainstay guard W587594
- Screw (S, M frames only) W596821
- Bolt (L and XL frames only) W549307
- (5) Cage spacer (S, M frames only) — W5256157
- Down tube guard W590604
- Drive unit guard W5253938
- Screws <u>W549305</u>
- Foam pads W5307155

Adhesive guards and pads 1269







Use isopropyl alcohol to clean the frame surface where the guards and pads attach. Wait for the alcohol to dry before applying the guards.

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

Display and remote

Rail 9.8 and Rail 9.9

System controller



- (1) Bolt <u>W5287174</u>
- 2 System controller 5315896
- 3 Display grommet W5285659

Mini remote



Rail 9.5 and Rail 9.7

Display cover



- (1) Bolt <u>W5287174</u>
- 2 Display cover <u>W5291499</u>

LED remote



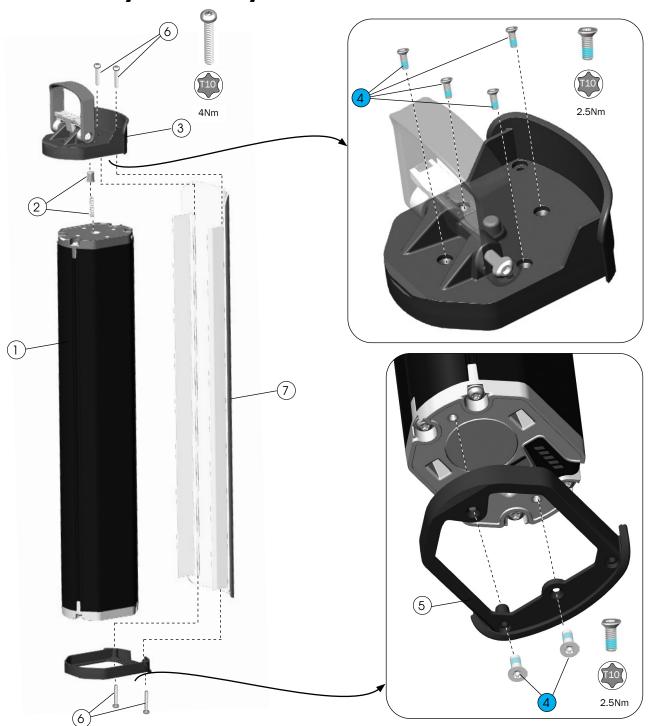
- 1 LED remote <u>5288736</u>
- 2 LED remote universal clamp <u>5288743</u>
 LED Remote cable (See <u>Cable routing Rail 9.5 and 9.7 with LED Remote on page 9</u>) EB12.120.005*

^{*}Bosch part number. Not available on trekbikes.com.

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^{*}Bosch part number. Not available on trekbikes.com.

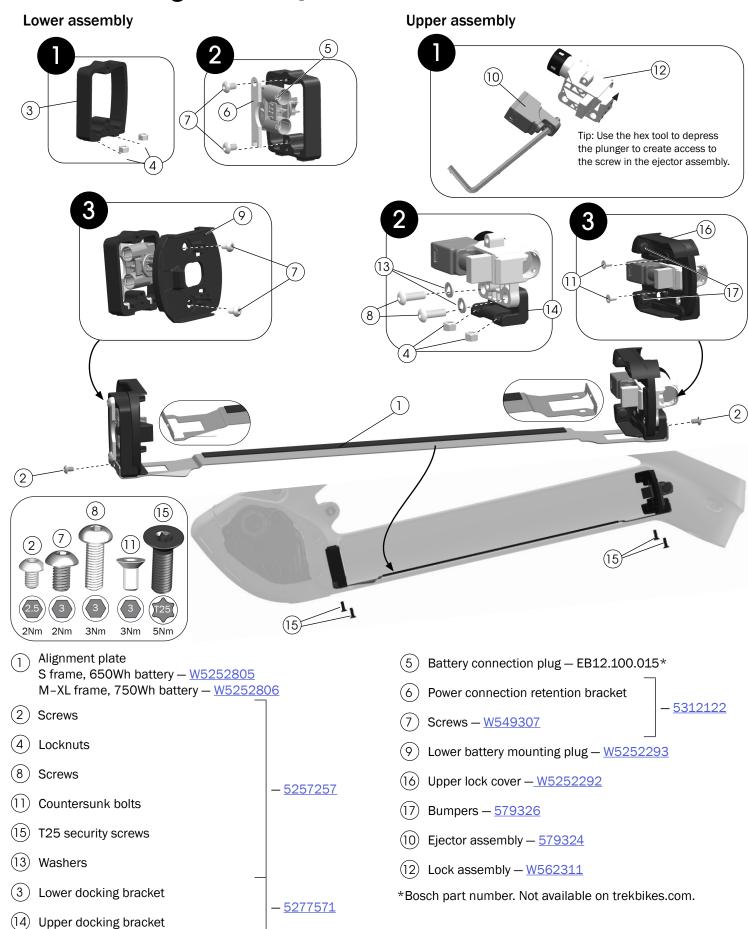
RIB — battery assembly



- 1 Battery, vertical, Smart System, S frame, 625Wh — EB12.100.012* M - XL frame -750Wh — 5288731
- (2) Push pin and spring $-\frac{5312675}{}$
- (3) Battery handle assembly W5252236
- 4 Bolts, M3x8 <u>W5269016</u>
- *Bosch part number. Not available on trekbikes.com.

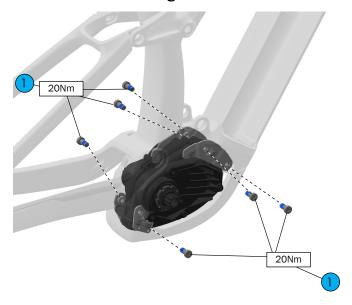
- (5) Docking bracket W5252240
- (6) Bolts, M3x20 W5254060
- Cover, 625Wh battery 37359
 Cover, 750Wh battery 37360
 Search trekbikes.com to find the color-matched part for your bike.

RIB — docking assembly



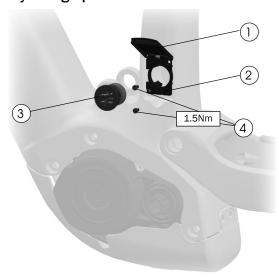
Drive system components

Drive unit and mounting bolts



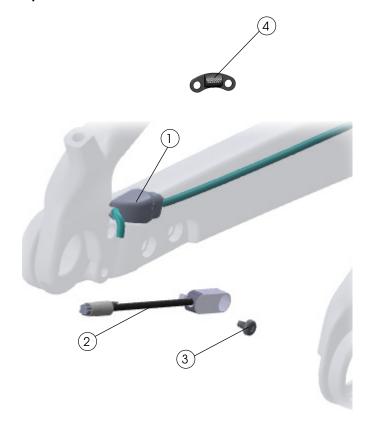
Mounting bolts, TP40 – <u>5265419</u> (Bosch 1270.016.470)

Battery charge port



- Charge port cover 44374
 Search trekbikes.com to find the color-matched part for your bike.
- 2 Base <u>W5251862</u>
- 3) Charge socket EB12.120.04A*
- (4) Bolts <u>5284849</u>
- *Bosch part number. Not available on trekbikes.com.

Speed sensor



- 1) Speed sensor chainstay plug W587873
- 2 Speed sensor <u>5284750</u>
- 3 Bolt <u>W562831</u>
- A Rotor mount speed sensor magnet <u>W5252927</u>

Specifications

Chainline (1x only)

- 52mm
- · Boost hub with offset chainring.

Chainring (1x only)

• 34T only

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.

Wheel set	Maximum tire size	
29"	29" x 2.6"	
27.5" rear with the mino link in the high position	27.5" x 2.8"	

Water bottle fit

Small frame: Compatible only with the Bontrager Voda 15 bottle. Requires the cage spacer included with the bike. Rail 9.9 with AirWiz: There is not enough clearance to fit a water bottle.

Medium frame: Requires the bottle cage spacer included with the bike. Rail 9.9 with AirWiz requires the bottle cage to be positioned as far toward the headtube as possible.

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				
	S	- 230mm			
	М				
	L	260mm			
	XL	310mm			
Seat tube inside diameter		34.9mm			
Seat tube post clamp outer diameter		39.5mm			

Kickstand mount

 Requires kickstand mounting bracket <u>W581379</u> and two M6x1.0x25mm bolts



Fork

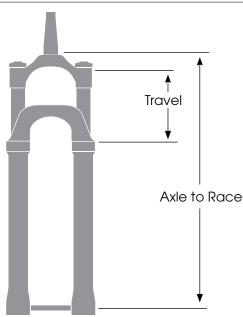
Refer to the suspension setup card included with your bike or the suspension calculator at

Trekbikes.com/suspension-calculator.



WARNING

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)
S, M, ML, L, XL	Recommended	571-576	160
	Maximum	586	170

