

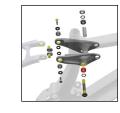
2023 Alloy Rail 5, 7, and 9 Gen 3

SERVICE MANUAL Rev 1 September 2023

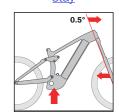
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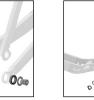
Safety



Rocker pivot and seatstay and seat stay



Headset with Knock Adjust the geometry



Active Braking Pivot (ABP)

Block

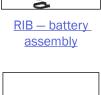
00 Main pivot and

chainstay and chainstay



Frame guards







RIB – docking assembly





Drive unit and mounting bolts



Specifications



Battery charge port cover



Remote

Speed sensor

Safety

00



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 A

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.

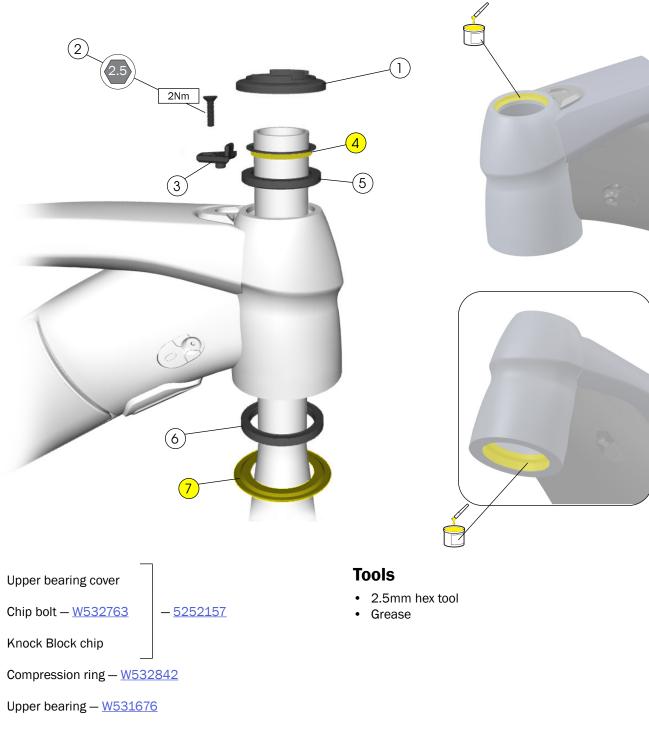




Zip tie

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Headset with Knock Block



(6) Lower bearing, 1.5" diameter – W532843

(1)

(2)

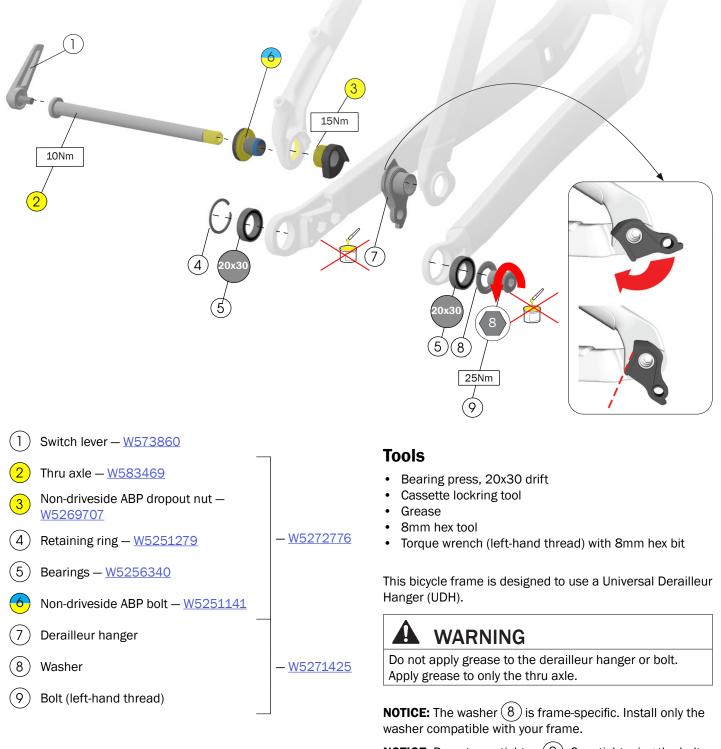
(3)

(4)

(5)

7 Crown race, for 1.5" diameter lower bearing – <u>W532844</u>

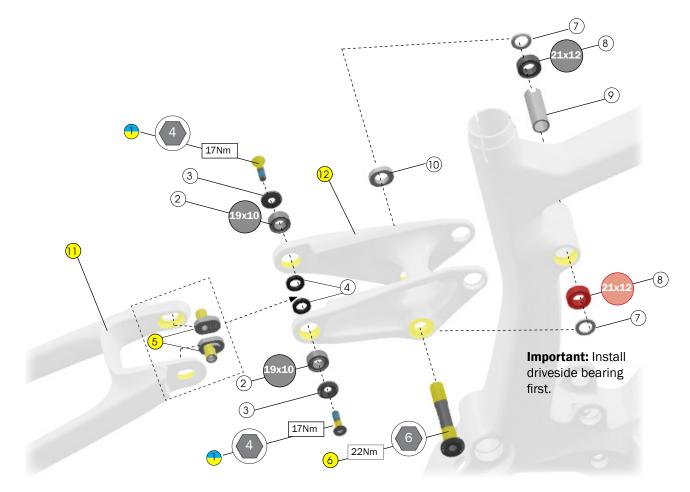
Active Braking Pivot (ABP)



NOTICE: Do not over-tighten (9). Over-tightening the bolt could cause the hanger to break.

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

Rocker pivot and seatstay



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



- Seatstay $\frac{44378}{5}$ Search trekbikes.com to find the color-matched part for your bike.
- Rocker link <u>37992</u>.
 Search <u>trekbikes.com</u> to find the color-matched part for your bike.

Tools

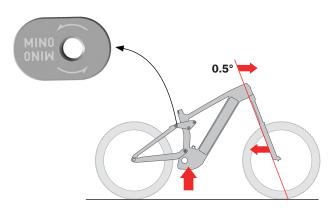
- Bearing press, 19x10 and 21x12 drifts
- 4mm and 6mm hex wrenches
- Torque wrench with 4mm and 5mm hex bits

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.

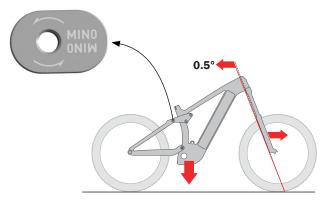
Steeper head tube angle



Mino links in the high position

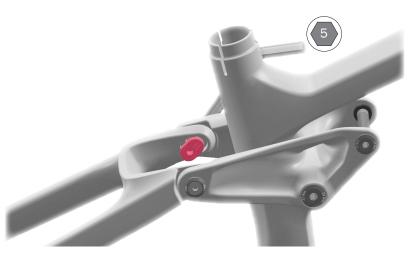
- Pulls in the front fork for quicker steering
- Raises the bottom bracket for improved climbing

Slacker head tube angle



Mino links in the low position

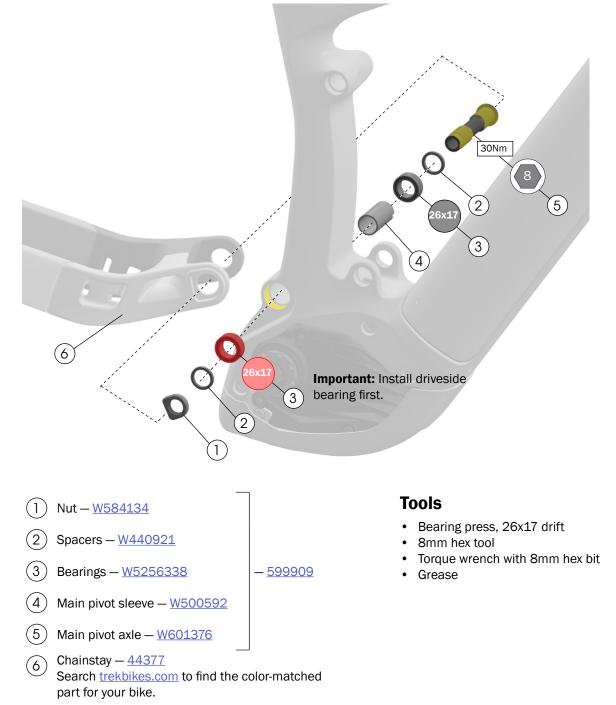
- Pushes the head tube angle back and pushes out the front fork for slower steering that is more stable at high speed
- Lowers the bottom bracket for more stability



Tools

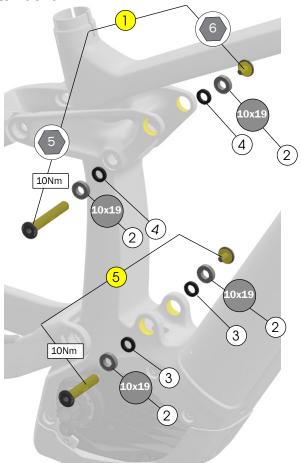
- 5mm hex tool
- Torque wrench with 5mm hex bit
- 1. With the bike on the ground, loosen and remove one Mino link chip.
- 2. Loosen and remove the other Mino link chip.
- Position the bike:
 Mino links high: Lift the bike by the seat tube. This will pull the rear triangle up and forward.
 Mino links 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.

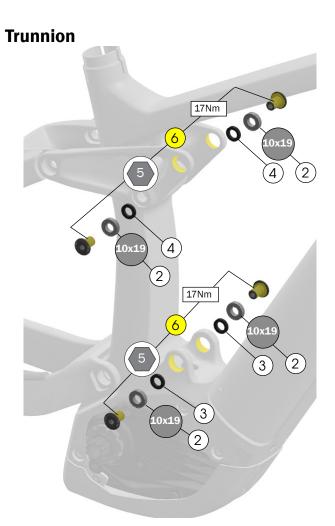
Main pivot and chainstay



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 – 5258209

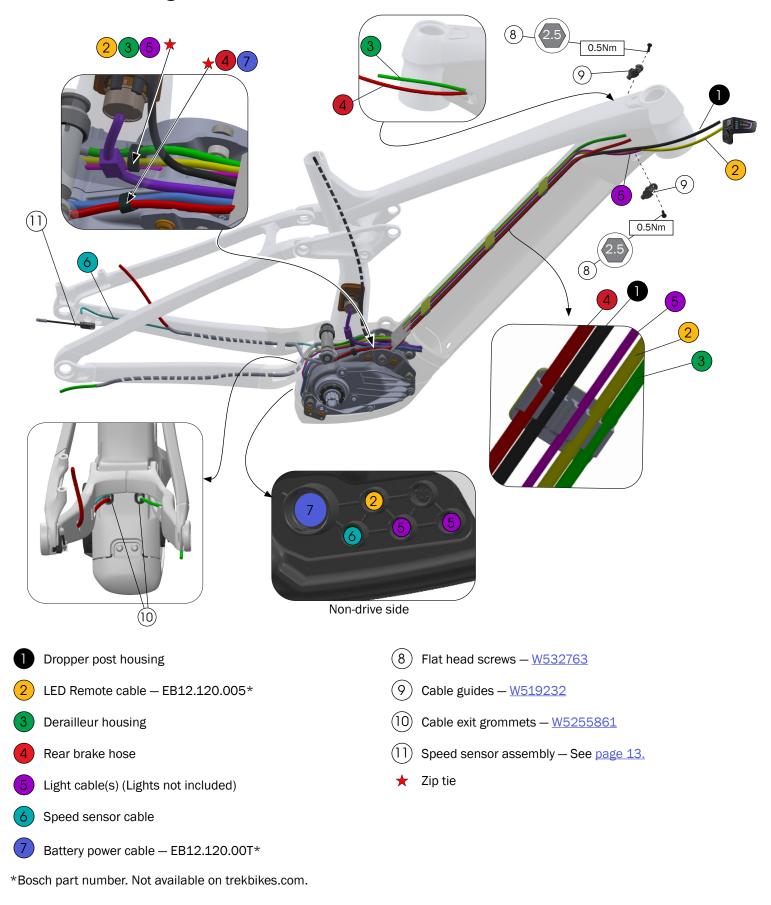
- (2) Bearings <u>W5256337</u>
- (3) Spacers, 16 x 10 x 5mm <u>W536414</u>
- (4) Spacers, 16 x 10 x 3mm <u>W529969</u>
- 5 Standard lower shock mount bolts <u>599900</u>
- 6 Trunnion shock mount bolts <u>W5289626</u>

Dimensions

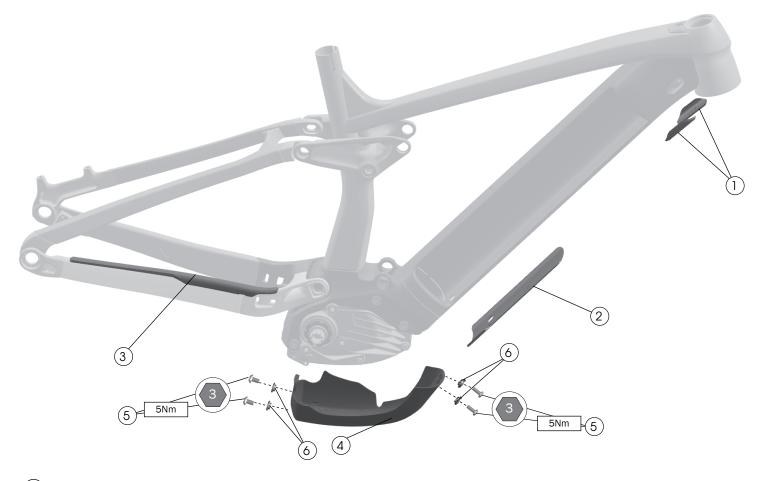


Shock Dimensions Eye-to Eye-length: 230mm Stroke length: 57.5mm Upper width: 54mm Lower width: 40mm

Cable routing



Frame guards



- (1) Upper down tube guards 556549
- (2) Lower down tube guard <u>W5276240</u>
- (3) Chainstay guard <u>W5276239</u>
- (4) Drive unit guard <u>W5269899</u>
- (5) Screws <u>W549305</u>
- (6) Top hat spacers W5272256

Adhesive guards 123

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

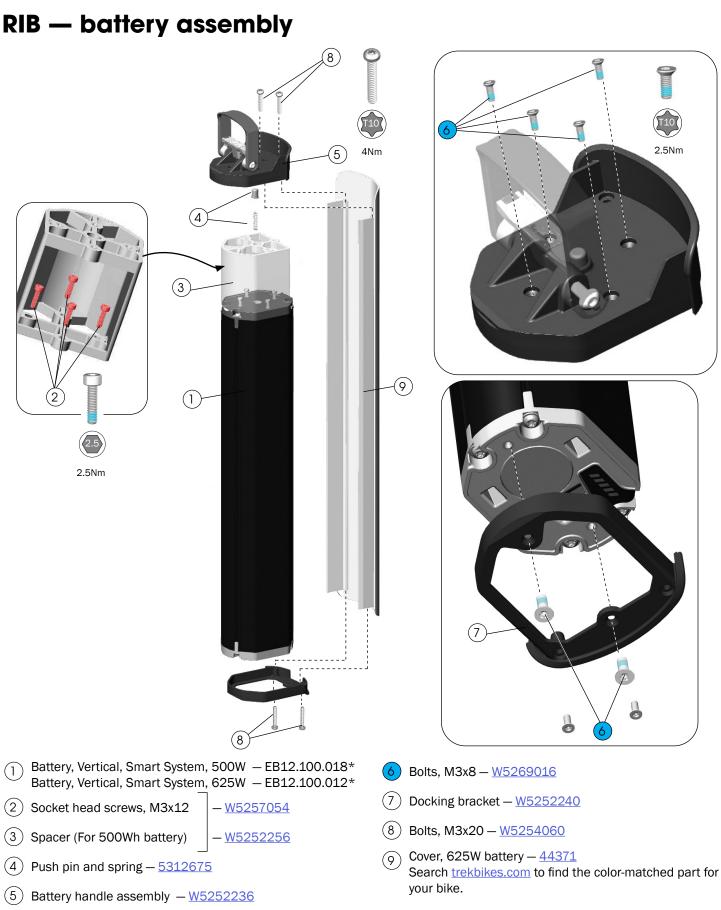
Notice: Do not clean the entire frame with isopropyl alcohol. Isopropyl alcohol could damage the paint.

Remote

LED remote

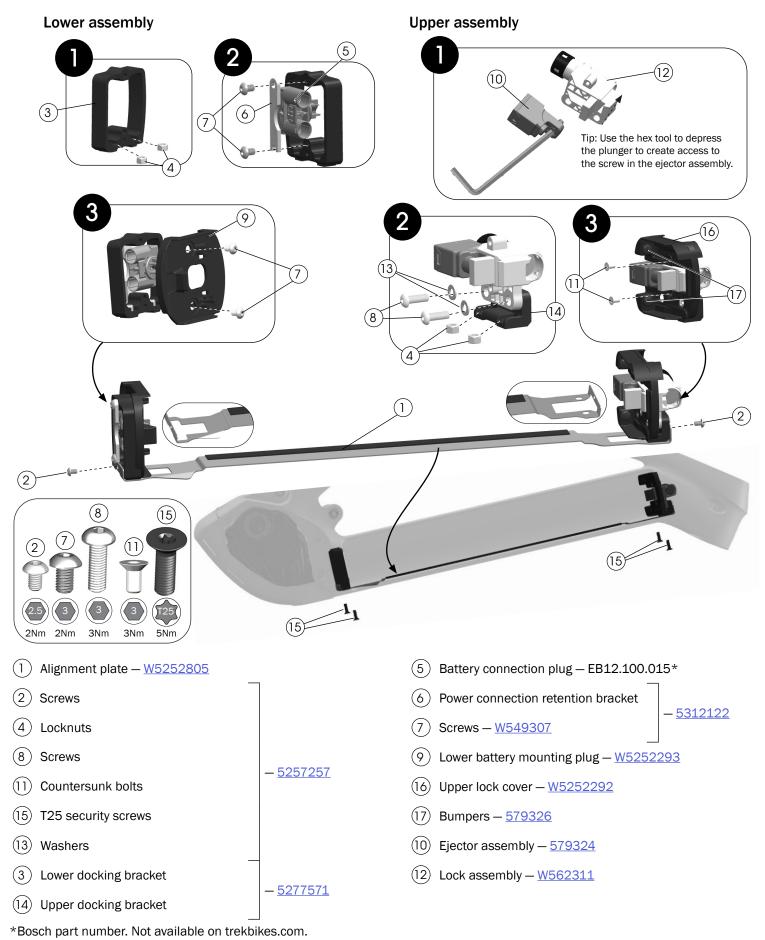


*Bosch part number. Not available on trekbikes.com.



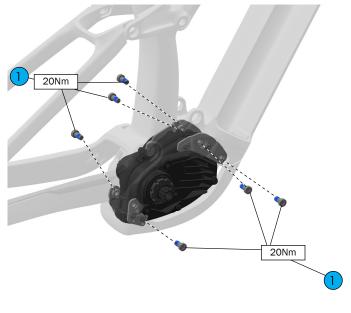
*Bosch part number. Not available on trekbikes.com.

RIB — docking assembly



Drive system components

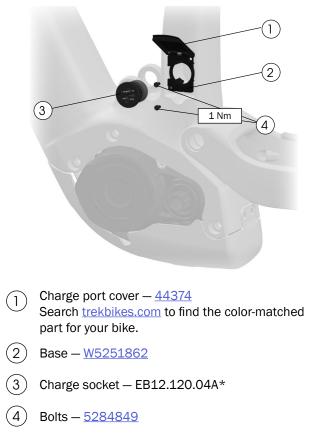
Drive unit and mounting bolts





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

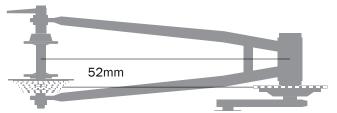
Battery charge port cover



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

Specifications

Chainline (1x only)



Boost hub with offset chainring.

Chainring (1x only)

• 34T

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"	

Water bottle fit

Small frame: does not have mounts for a water bottle cage.

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	Frame			
	S	220mm			
	М	230mm			
	L	260mm			
	XL	310mm			
Seat tube inside diameter		31.6mm			
Seat tube post clamp outer diameter		36.4mm			

Kickstand mount

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

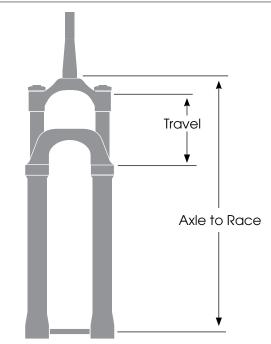


Fork

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

Trekbikes.com/suspension-calculator.

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	570	160
	Maximum	580	170