

**TREK**



# 2022 CHECKPOINT SL/SLR

SERVICE MANUAL SUPPLEMENT

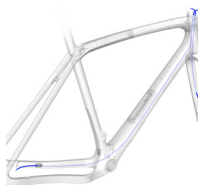
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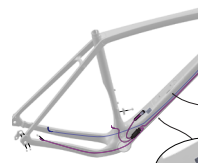
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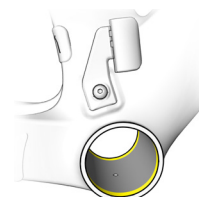
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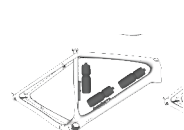
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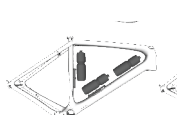
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	SL
Rear hub ISO	125mm
Rear axle OD	27.2mm
Rear axle clamp ID	42.0mm
Upper lock steer tube OD	28.6mm
Lower lock steer tube OD	28.6mm
Head tube ID, top headtube	40mm (SL Series)
Head tube ID, top headtube	42.5mm (SLR Series)
Front headtube clamp ID	34.0mm
Chainline (SL)	43.5mm (SRAM) - 43.0mm (Shimano)
Chainline (SLR)	43.5mm
Chainring max (SL)	48T SRAM/50T Shimano
Chainring max (SLR)	50T
Long	50T
Short	48T
Frontal mount - rear	Yes
Frontal mount - front	Yes
Rack mount	Yes

[Specifications](#)

## 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 applicable grease



Do not apply grease



Apply threadlocker



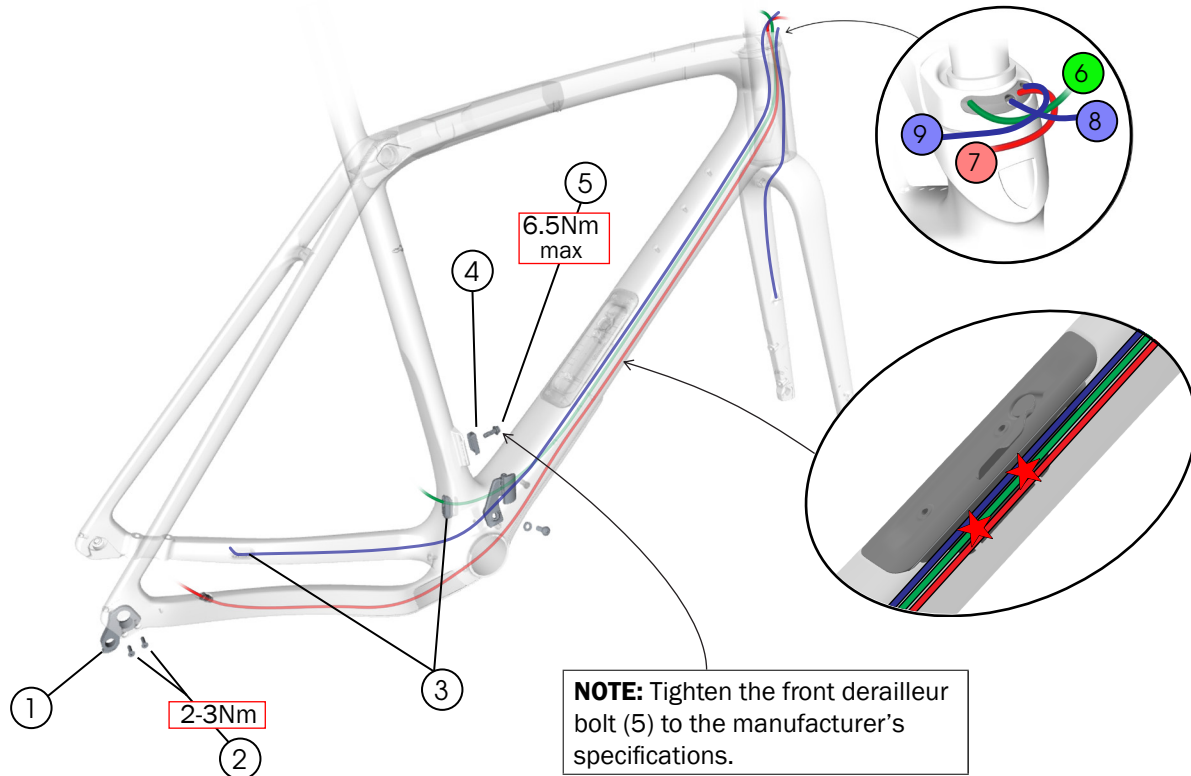
Nm

Torque



Cable (zip) tie

# Brake/shift routing — mechanical



- ① Rear derailleur hanger — W524188
- ② Rear derailleur hanger bolts — W524884
- ③ Housing grommets — W330578
- ④ Front derailleur washer — W531901
- ⑤ Front derailleur bolt — W543903
- ⑥ Front derailleur cable
- ⑦ Rear derailleur cable
- ⑧ Front brake hose
- ⑨ Rear brake hose
- ⑩ Dropper post cable

## Route the brake hoses

1. Connect the calipers to the brake hoses.
2. Route the rear brake hose through the grommet (3). Route both brake hoses as shown.



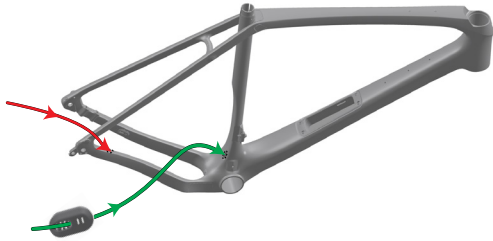
3. Attach the calipers to the chainstay and fork. Do not fully torque the mounting bolts until the calipers are aligned correctly.



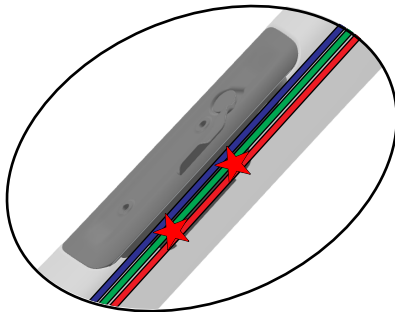
# Brake/shift routing — mechanical (continued)

## Route the shift cables

1. Label both shift housings. You will need to identify them when you assemble the headset.
2. Attach the derailleurs to the bicycle.
3. Route the front derailleur housing through the grommet (3). Route both shift housings through the frame as shown.



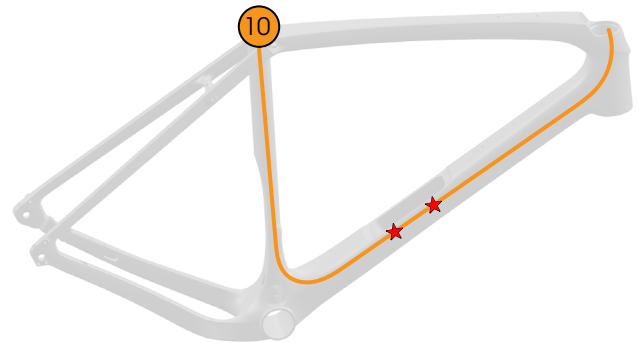
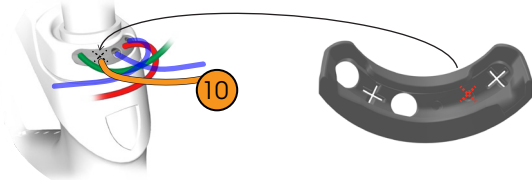
4. Connect the shift housings to the derailleurs. Insert the grommet (3) into the frame.
5. Install the [bottom bracket](#), [headset and fork](#), and handlebars.
6. Cut the cable and brake housings at the levers (make sure you have enough slack).
7. Route the shift cables through the housings in the frame — starting in the front — and attach them to the derailleurs.
8. Use a cable (zip) tie to connect the shift housings and rear brake hose to the outside of the storage door frame.



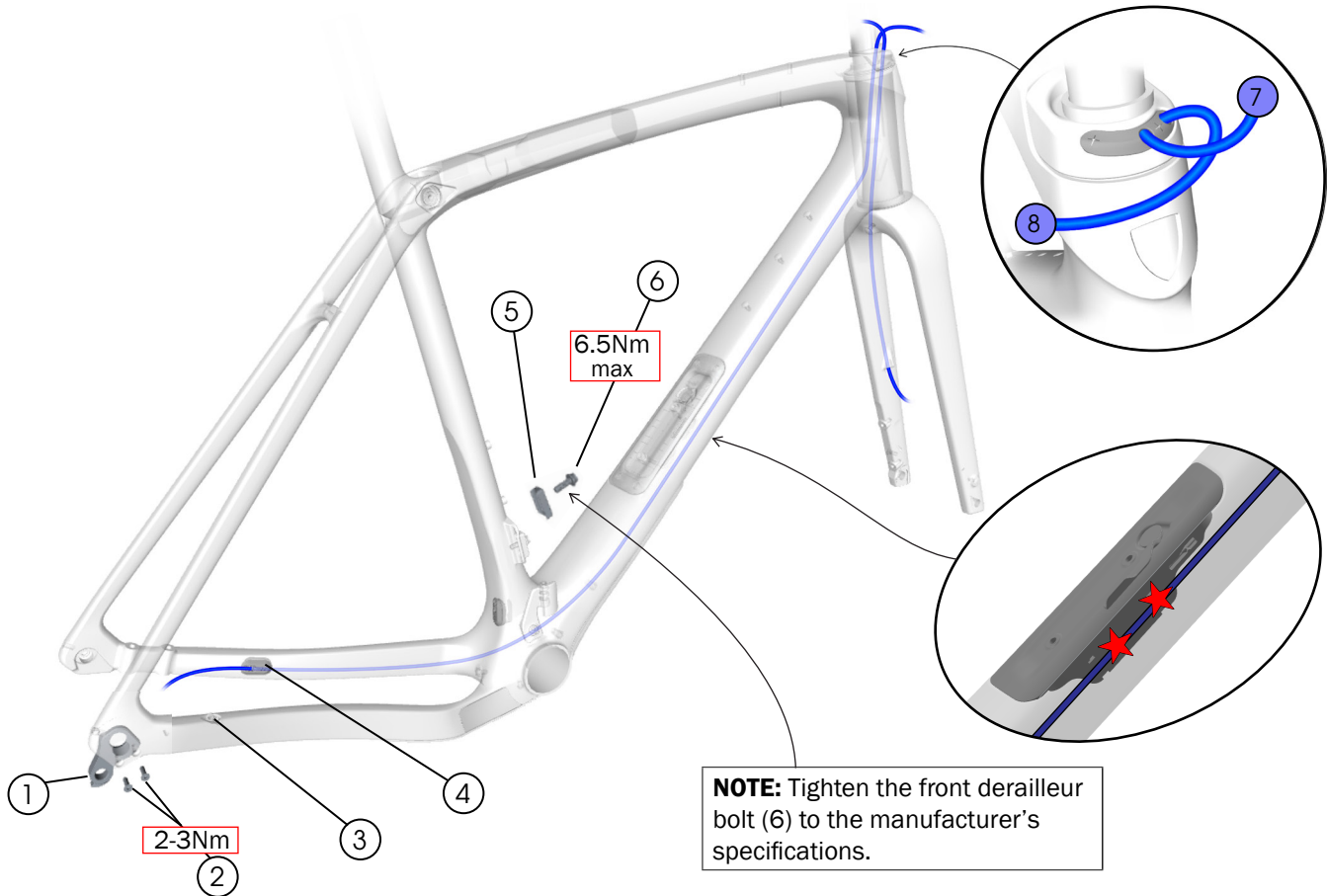
## Dropper post cable routing (SL only)

Cut out a hole in the outer dimple on the back of the routing cap grommet. Route the dropper post cable to the handlebars as shown below.

**NOTE:** A dropper post is not compatible with the SLR model due to the seat mast system.



# Brake routing — eTap



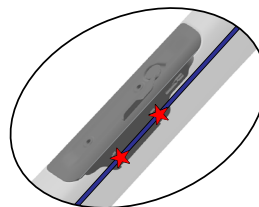
- ① Rear derailleur hanger — W524188
- ② Rear derailleur hanger bolts — W524884
- ③ Plug — W330578
- ④ Housing grommet — W330578
- ⑤ Front derailleur washer — W531901
- ⑥ Front derailleur bolt — W543903
- ⑦ Front brake hose
- ⑧ Rear brake hose
- ⑨ Dropper post cable

## Route the brake hoses

1. Connect the calipers to the brake hoses.
2. Route the rear brake hose through the grommet (4). Route both brake hoses as shown.



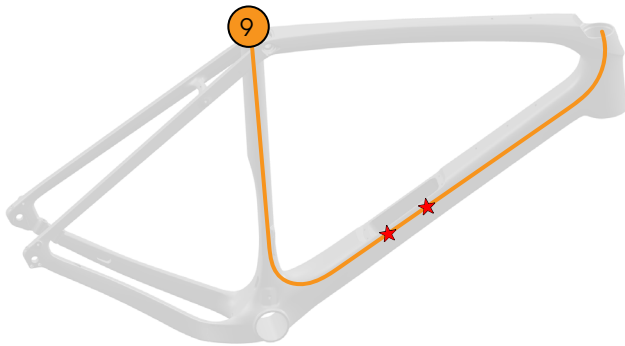
3. Attach the calipers to the chainstay and fork. Do not fully torque the mounting bolts until the calipers are aligned correctly.
4. Use a cable (zip) tie connect the rear brake hose to the outside of the storage door frame.



## Brake routing — eTap (continued)

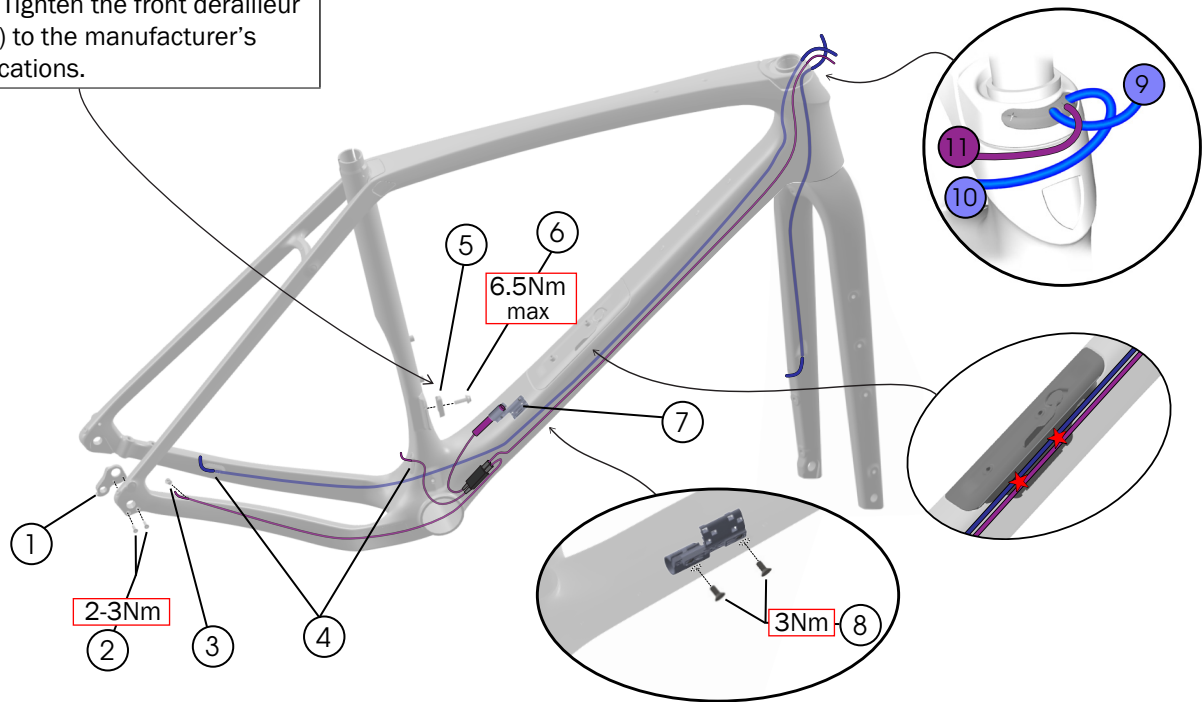
### Dropper post cable routing (SL only)

**NOTE:** A dropper post is not compatible with the SLR model due to the seat mast system.



# Brake/shift routing — Di2

**NOTE:** Tighten the front derailleur bolt (6) to the manufacturer's specifications.



- ① Rear derailleur hanger — W524188
- ② Rear derailleur hanger bolts — W524884
- ③ Di2 exit grommet — W600208
- ④ Housing grommets — W330578
- ⑤ Front derailleur washer — W531901
- ⑥ Front derailleur bolt — W543903
- ⑦ Battery holder and cable guide — W588188
- ⑧ Screws (M4x9mm) — W307656
- ⑨ Front brake hose
- ⑩ Rear brake hose
- ⑪ Di2 wires

## Route the brake hoses

1. Connect the calipers to the brake hoses.
2. Route the rear brake hose through the grommet (4). Route both brake hoses as shown.

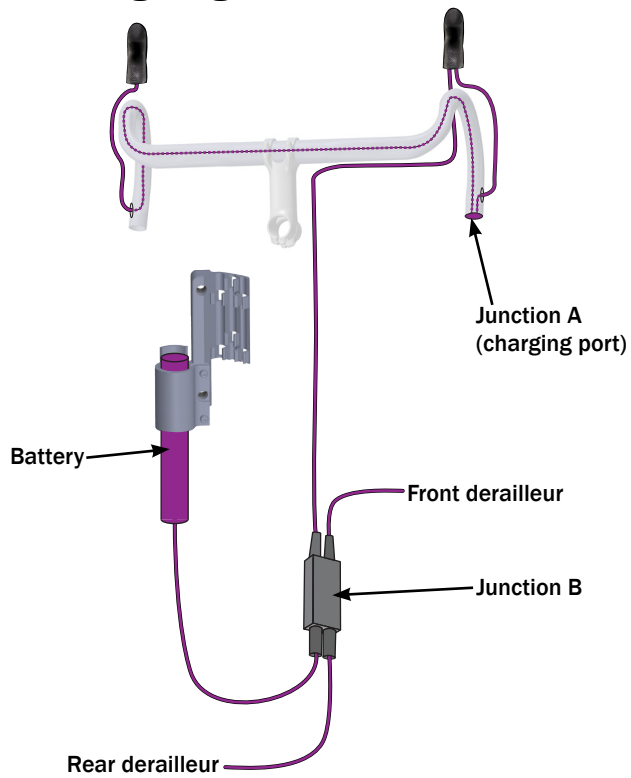


3. Attach the calipers to the chainstay and fork. Do not fully torque the mounting bolts until the calipers are aligned correctly.



## Brake/shift routing — Di2 (continued)

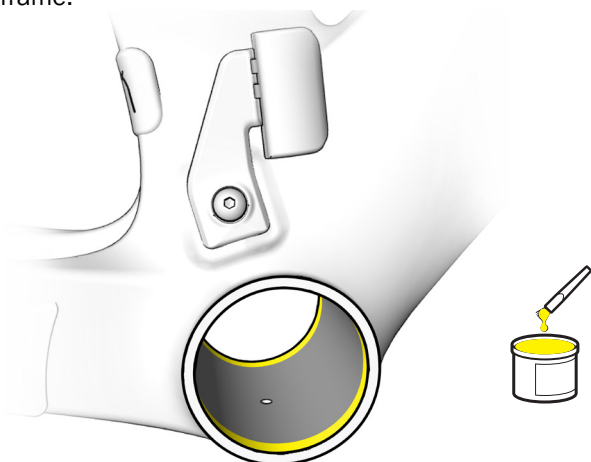
### Di2 wiring diagram



# T47 bottom bracket

## Install the bottom bracket

1. Apply grease to the threads on both sides of the frame.



2. Using your hands, thread the bottom bracket onto the frame.

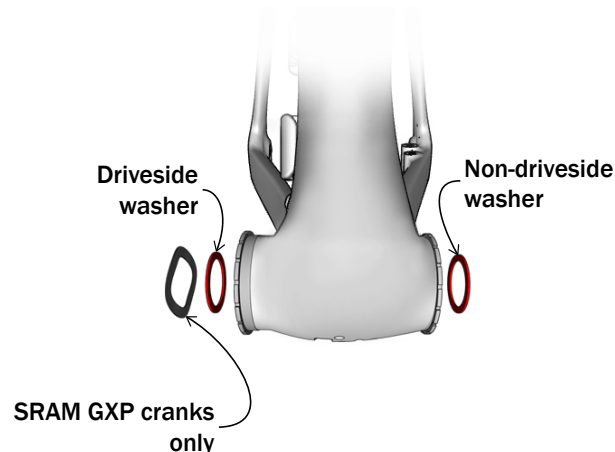
**NOTICE:** Do not start tightening the bottom bracket with a tool. Dirt and other contaminants can damage the threading.

3. Use the proper tool to torque both sides to specification (see the [Tool and spline compatibility](#) table below).
4. If necessary, add spacers before installing the cranks (see the [Spacers required](#) table at the top right).

## Spacers required

The table below contains bottom bracket/crank combinations that require spacers. Your bicycle may have other combinations that do not require spacers.

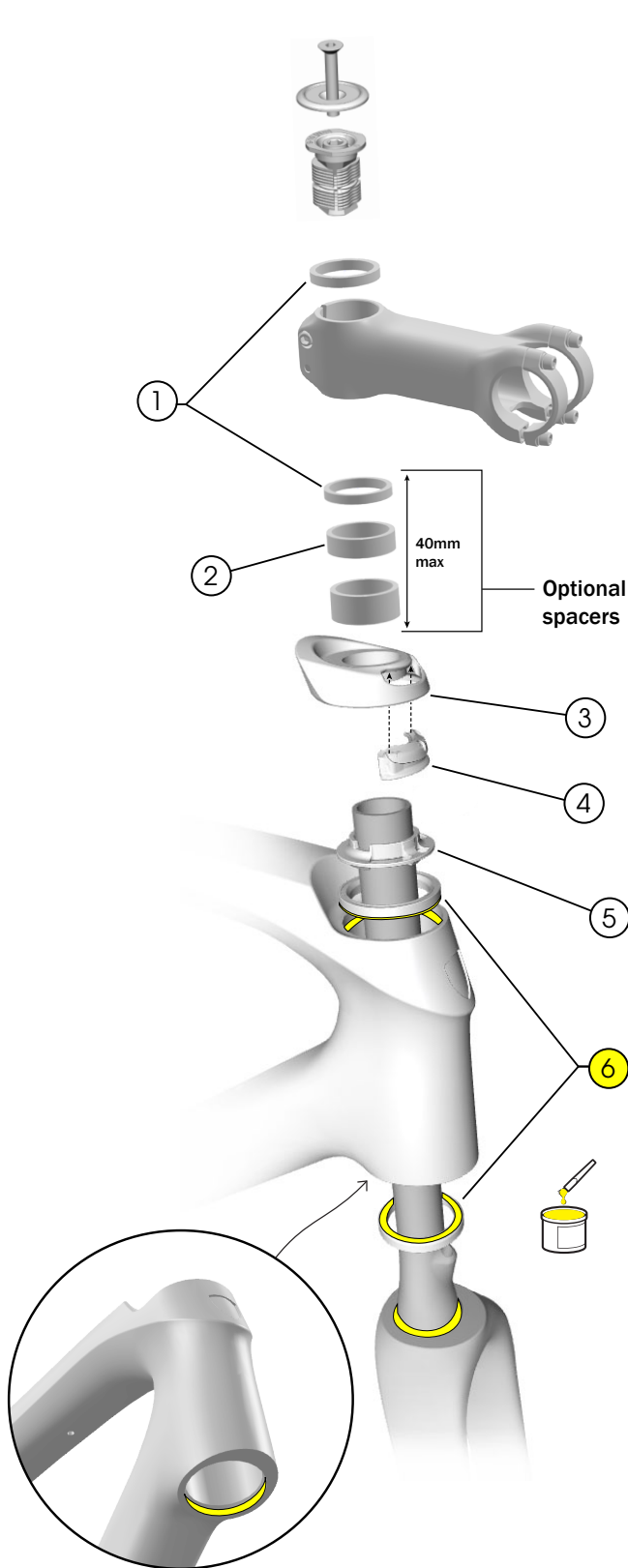
Crank	Bottom bracket	Spacers required	
		Drive side	Non-drive side
Shimano	CeramicSpeed 24mm	0.5mm	0.5mm
SRAM	DUB	2-3mm	—
	GXP	1.0mm	—



## Tool and spline compatibility

Tool			Praxis		Unior	Park Tool	Wheels Mfg	CeramicSpeed
Model			TP-2400	TP-3028	1671.T47	BBT-47	BBTOOL-48-44	
Part number			594148	594147	1043614	568922	589307	—
Bottom bracket manufacturer	Praxis	24mm	X		X			
		30mm		X	X			
	Wheels MFG						X	
	SRAM DUB				X	X		
	Chris King				X	X		
	Ceramic-Speed	24mm			X	X		X
		GXP						X

## Headset and fork

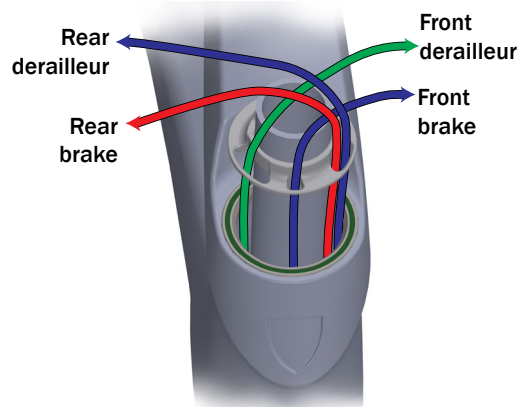


- ① Spacer (5mm) — 5253930
- ② Spacer, optional (10mm) — 5253931
- ③ Headset routing cap\*
- ④ Headset routing cap grommet — W5253580
- ⑤ Headset split ring — W5266050
- ⑥ Headset bearings — W540243

\*This is a color-matched part — search [trekbikes.com](https://trekbikes.com) to find the right color for your bike.

### Install the headset

1. Clean the steerer tube using isopropyl alcohol.
  2. Grease both bearings (6), the fork crown race, and both head tube bearing bores (upper and lower) as shown to the left.
  3. Insert the fork into the head tube.
- TIP:** Support the fork with a table during the assembly.
4. Route the shift housings and brake hoses through the split ring (5) as shown below (see pages 2-7 for different routing examples).



Mechanical routing example

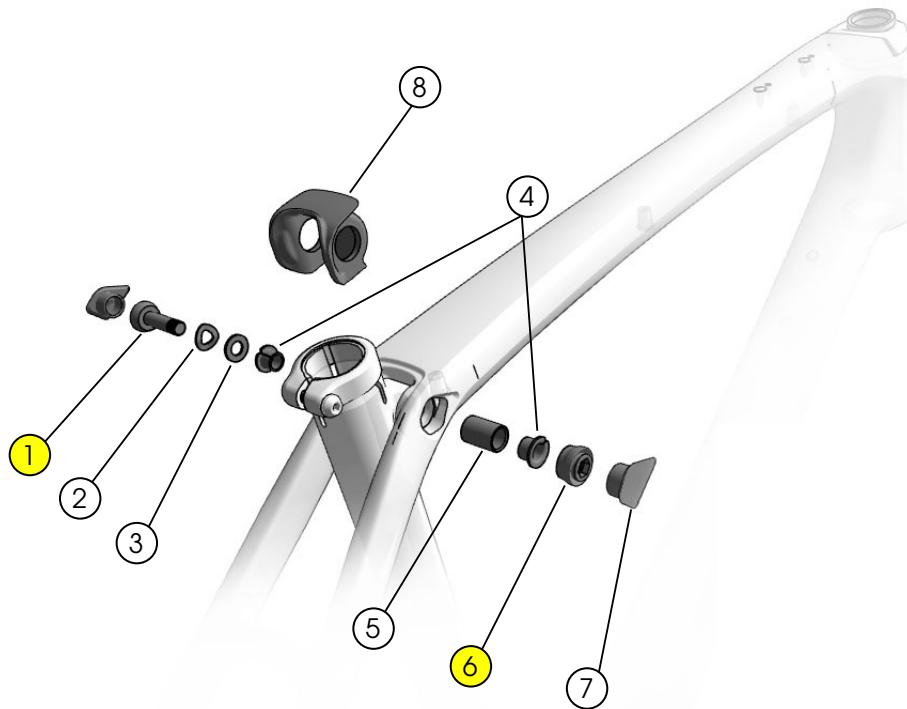
5. Complete the headset assembly as shown to the left.

### Cutting the steerer tube

If cutting the steerer tube, cut flush or slightly above the top of the stem (this helps hold the 5mm spacer above in place).

**NOTE:** Before cutting, make sure the stem is set to the final desired stack position.

# IsoSpeed — SL

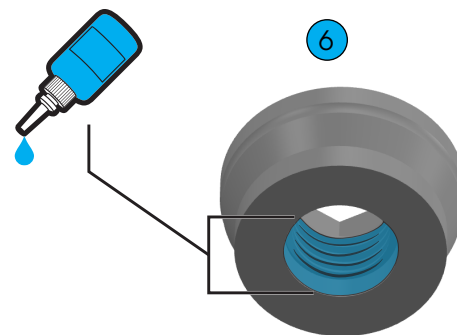


- ① Bolt
  - ② Wave washer
  - ③ Washer
  - ④ Flanged bushing
  - ⑤ Cylindrical bushing
  - ⑥ Nut
  - ⑦ IsoSpeed covers\*
  - ⑧ Grommet — W5253578
- ] kit 569265

\*This is a color-matched part — search [trekbikes.com](https://trekbikes.com) to find the right color for your bike.

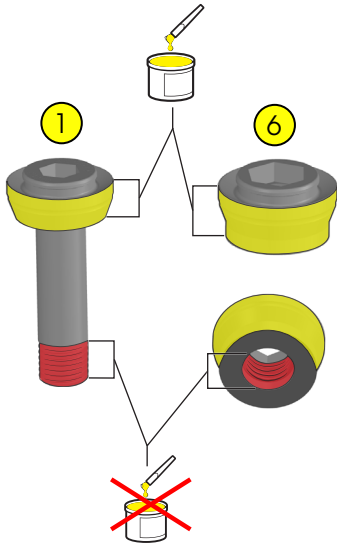
## Service the IsoSpeed

1. Carefully remove the IsoSpeed covers (7) with a paint-safe plastic pry bar.
2. Remove the bolt (1), nut (6), and washers.
3. Use a 50/50 isopropyl alcohol/water mix to clean the nut threads (6), bolt threads (1), and the inside of the bushings (4, 5).
4. Apply threadlocker to the nut threads.

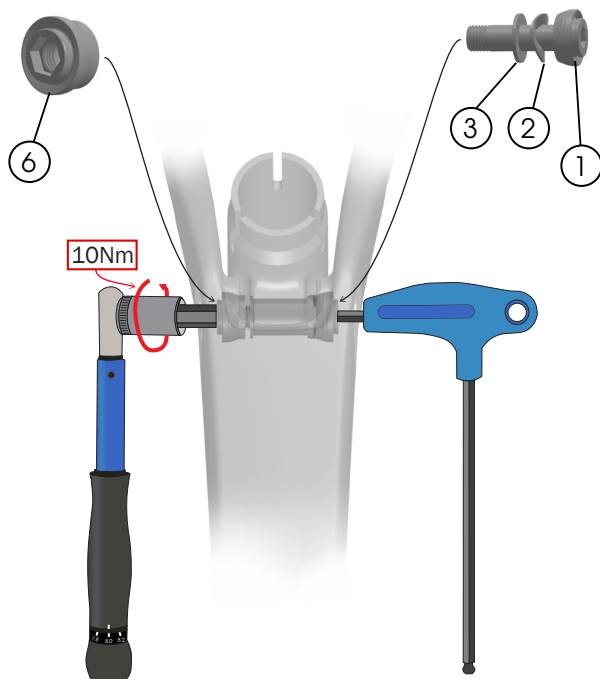


## IsoSpeed – SL (continued)

5. Apply grease to the bolt and nut as shown below. Do not apply grease to the threads.

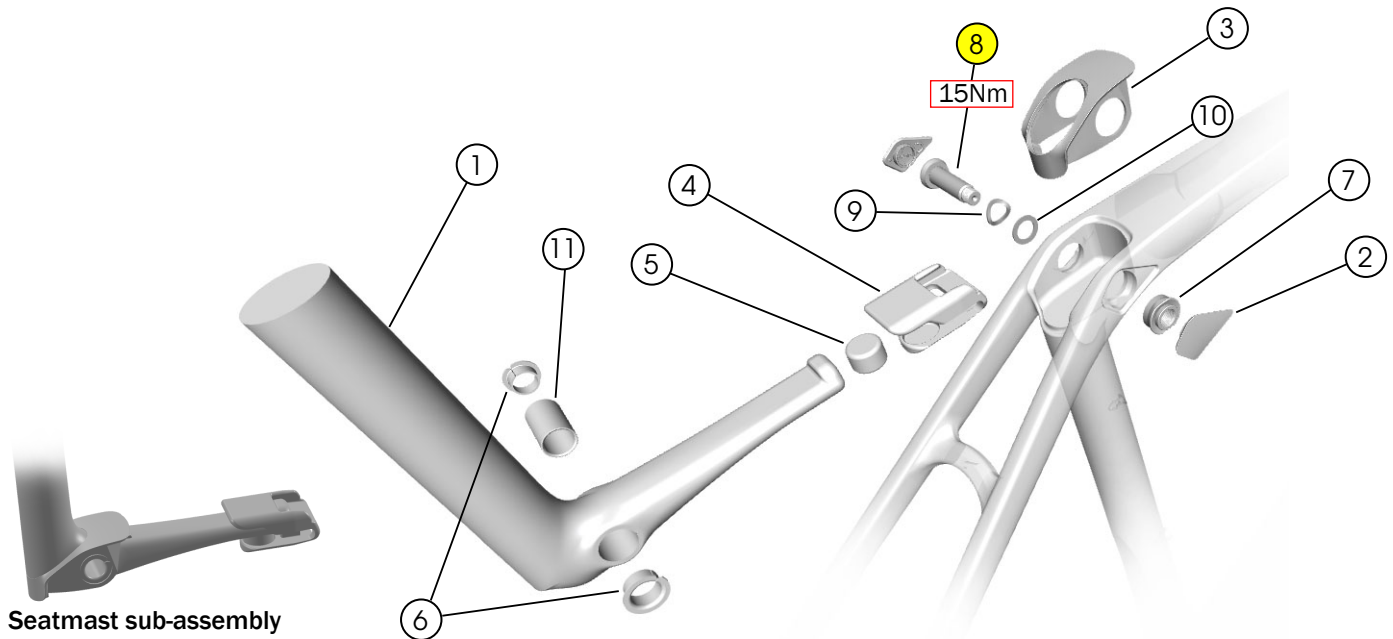


6. Place the washers on the bolt. Tighten the nut to 10Nm while securing the bolt with a wrench as shown below.



7. Reinstall the IsoSpeed covers.
8. Allow the assembly to cure for 24 hours at room temperature (72°F/22°C).

# IsoSpeed — SLR



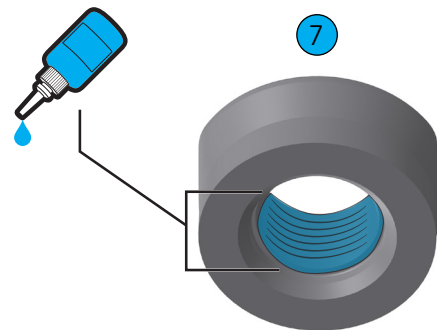
Seatmast sub-assembly

- ① Seatmast
- ② IsoSpeed covers\*
- ③ Grommet — W5256901
- ④ Clip — W5256902
- ⑤ Bumper — W5256904
- ⑥ Flanged bushings — W5256074
- ⑦ Nut
- ⑧ Bolt
- ⑨ Wave washer
- ⑩ Flat washer
- ⑪ Cylindrical bushing

kit 5271110

## Service the IsoSpeed

1. Carefully remove the IsoSpeed covers (2) with a paint-safe plastic pry bar.
2. Remove the bolt (8), nut (7), and washers.
3. Use a 50/50 isopropyl alcohol/water mix to clean the nut threads (7), bolt threads (8), and the inside of the bushings (6, 11).
4. Apply threadlocker to the nut threads.

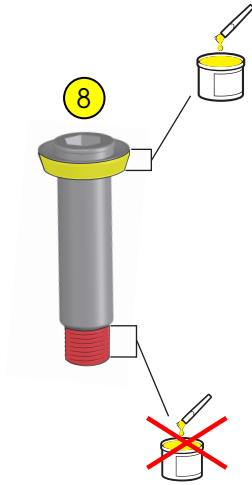


\*This is a color-matched part — search [trekbikes.com](https://trekbikes.com) to find the right color for your bike.



## IsoSpeed — SLR (continued)

5. Apply grease to the bolt (8) as shown below. Do not apply grease to the threads.

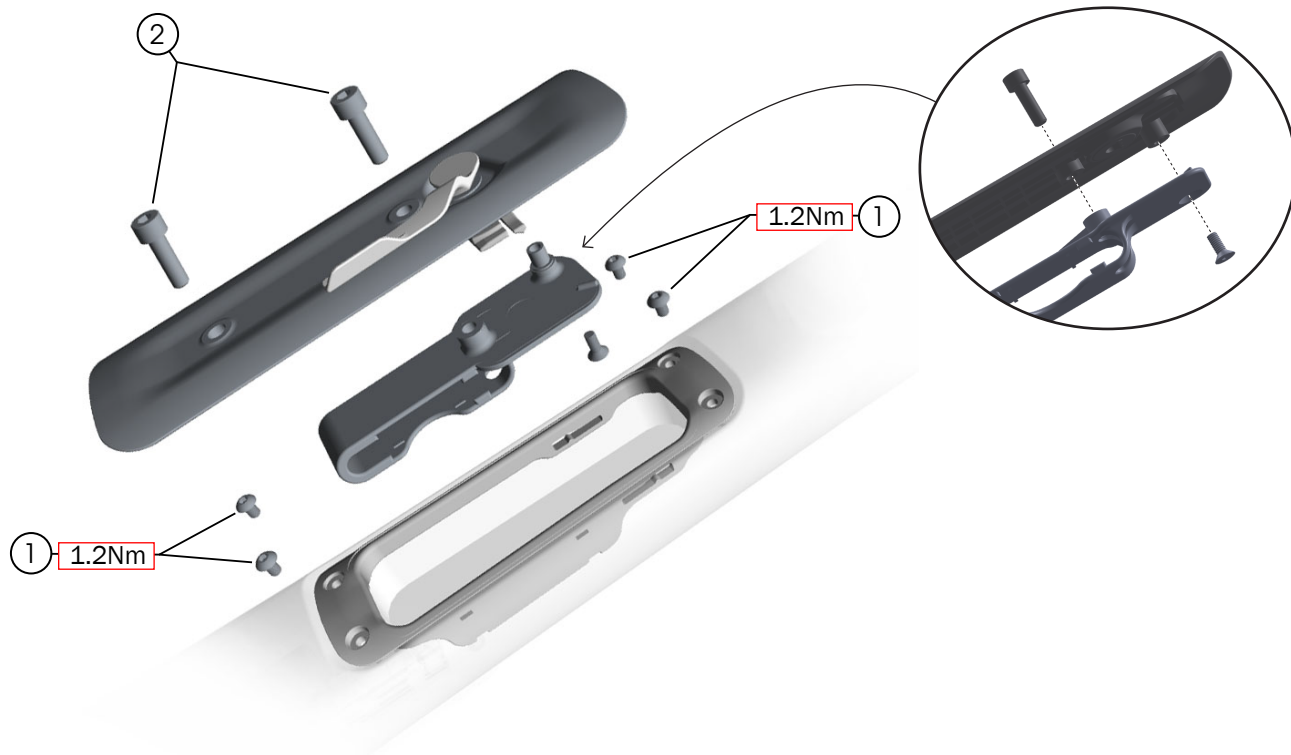


6. Install the hardware as shown on page 12. Torque the bolt (8) to 15Nm.

**NOTE:** Torque the bolt to the value shown in this manual (15Nm). Some early production models have an incorrect torque value etched into the head of this bolt.

7. Reinstall the IsoSpeed covers (2).
8. Allow the assembly to cure for 24 hours at room temperature (72°F/22°C).

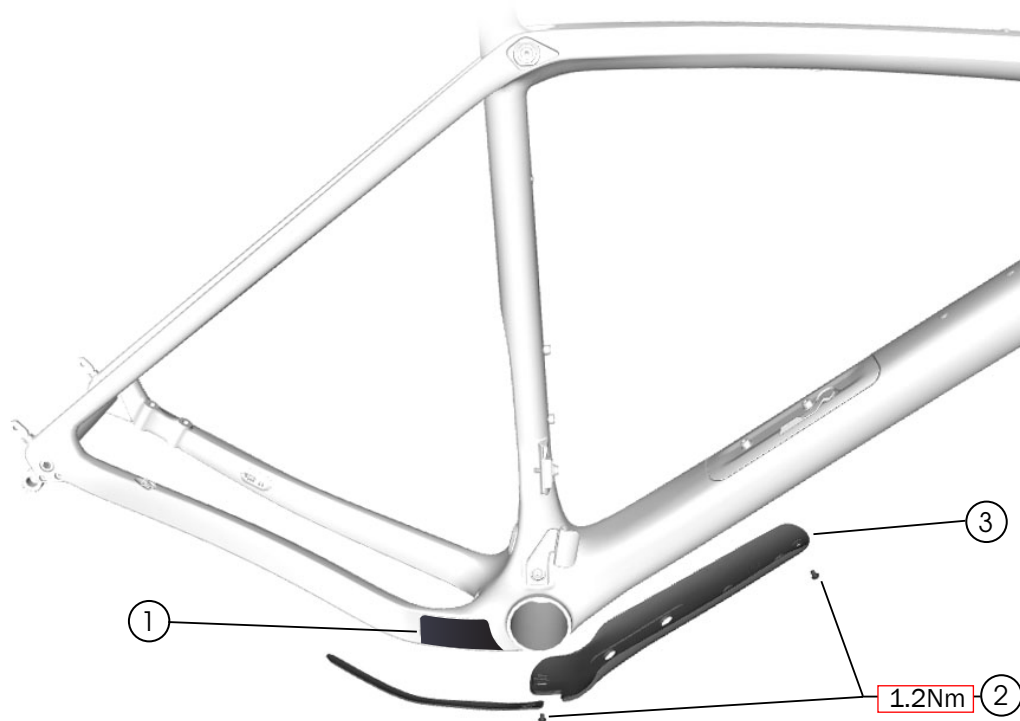
## Storage door



- ① Mount screws — W302605
  - ② Bolt (M5x16mm) — W596821
- } storage door kit\*

\*This is a color-matched part — search [trekbikes.com](https://trekbikes.com) to find the right color for your bike.

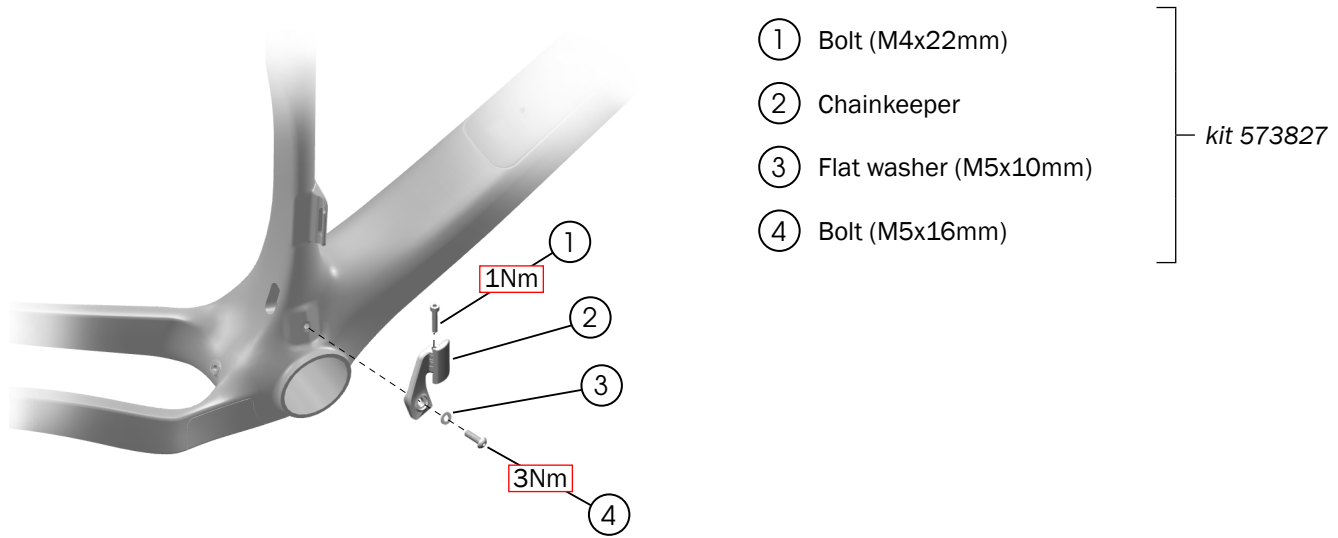
## Frame guards



- ① Chainstay frame guard — W5253575
- ② Button head screws — 1042535
- ③ Down tube guard — W5253574

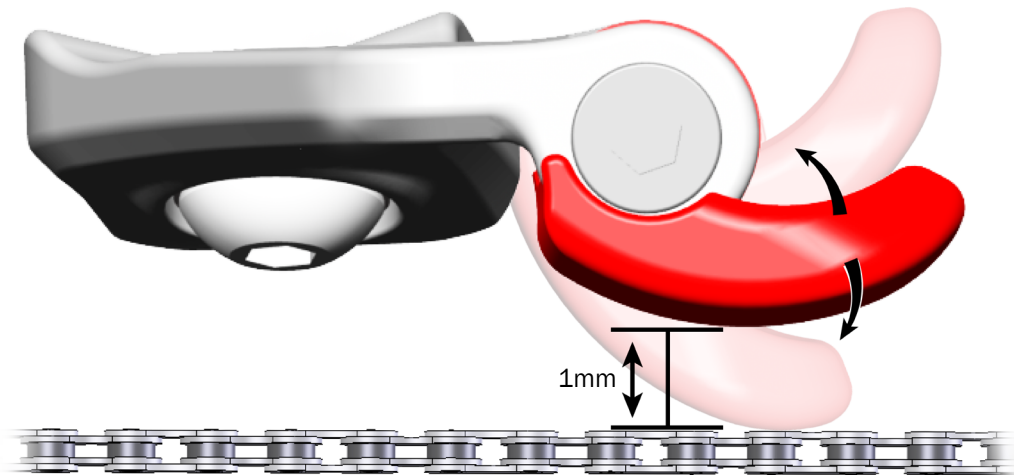
# Chainkeeper

**NOTE:** This chainkeeper only functions properly on 2x chainring drivetrains. It is not compatible with 1x chainring drivetrains and 2x chainring drivetrains with a wider chainline (such as SRAM WIDE).



## Adjust the chainkeeper

1. Shift to the lowest gear (largest rear cassette cog) and inner chainring.
2. Loosen the bolt (1) on the chainkeeper.
3. Rotate the loose piece (shown in red below) so there is 1mm of horizontal clearance to the chain.

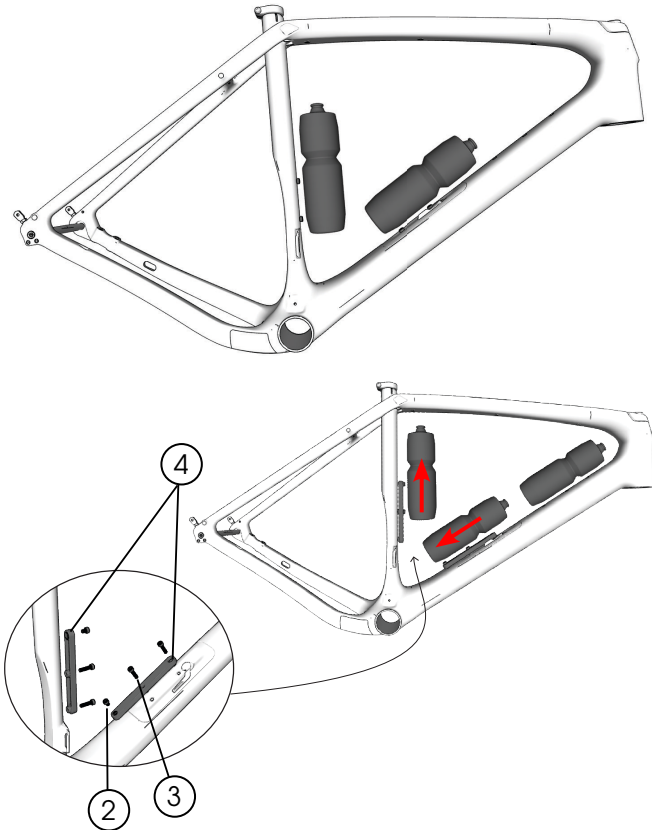


4. Tighten the bolt (1) to 1Nm.

## Accessories — SL

### Water bottle cage adapters

For frames 54cm or larger, you can fit three water bottle cages in the frame triangle using the adapters.



① Fender mount bolts — W331954

② Bolt (M5x8mm)

③ Bolt (M5x16mm)

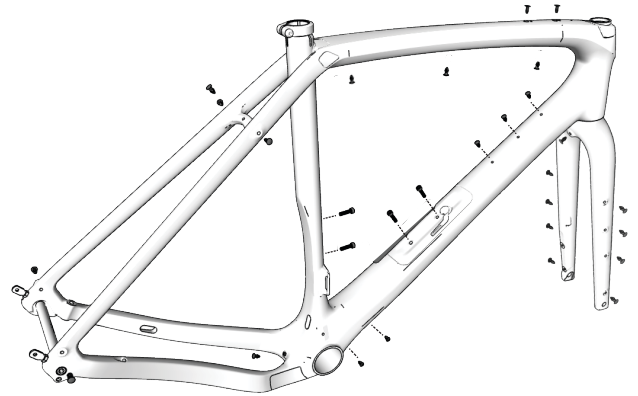
④ Bottle cage adapters

⑤ Frame bag

kit W5271627

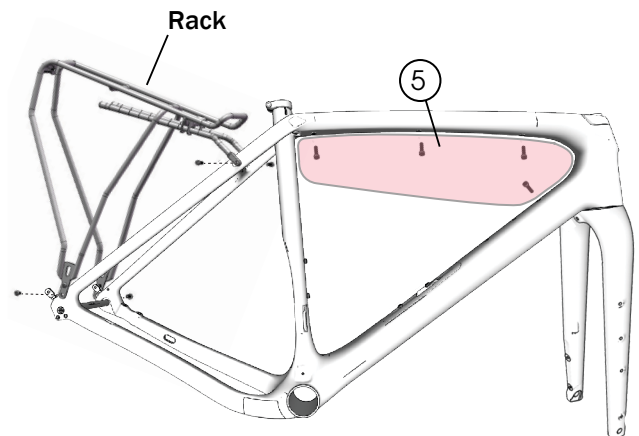
### Mounting inserts

All mounting inserts are M5x0.8.

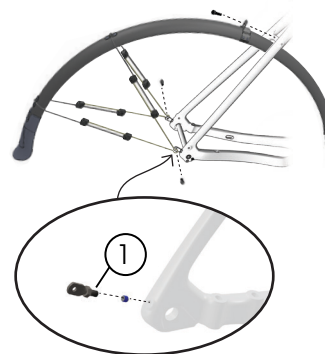


### Rack, fenders, and frame bag

**NOTE:** Use only steel fasteners to attach racks, bags, and fenders. Do not use aluminum fasteners as they are not rated for these loads.



Rear fender



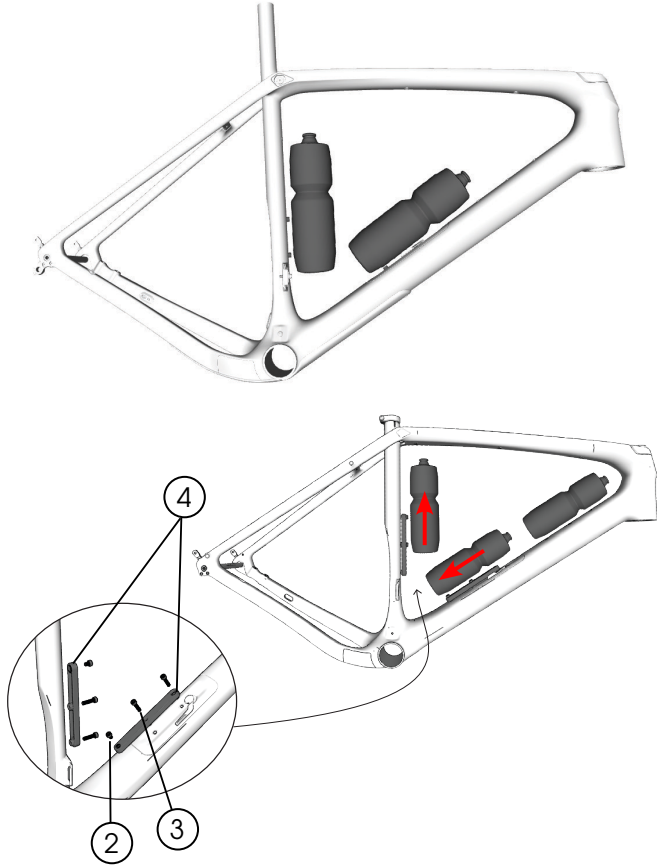
Front fender



## Accessories — SLR

### Water bottle cage adapters

For frames 54cm or larger, you can fit three water bottle cages in the frame triangle using the adapters.



① Fender mount bolts — W331954

② Bolt (M5x8mm)

③ Bolt (M5x16mm)

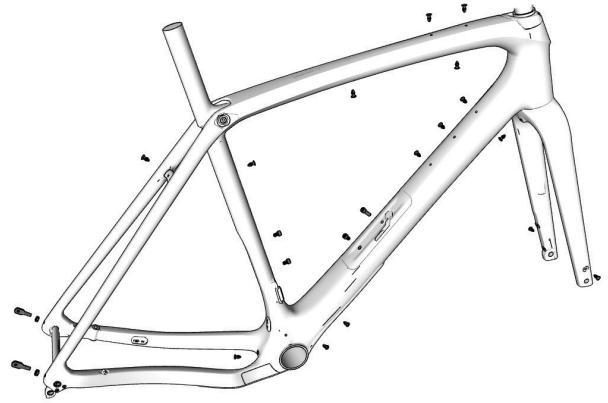
④ Bottle cage adapters

⑤ Frame bag

kit W5271627

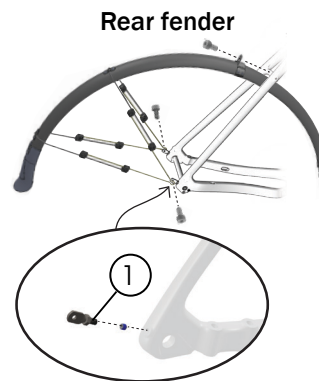
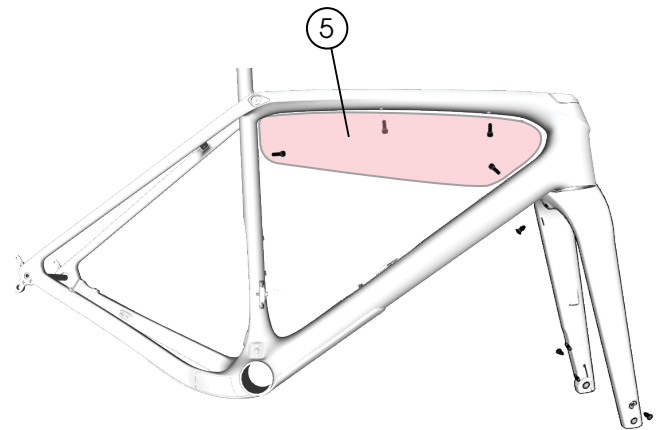
### Mounting inserts

All mounting inserts are M5x0.8.



### Fenders and frame bag

**NOTE:** Use only steel fasteners to attach fenders and bags. Do not use aluminum fasteners as they are not rated for these loads.



# Specifications

	SL	SLR
<b>Rear hub OLD</b>	142mm	142mm
<b>Seat post OD</b>	27.2mm	—
<b>Seat post clamp ID</b>	31.9mm	—
<b>Seatmast ID</b>	—	30mm
<b>Upper fork steerer tube OD</b>	28.6mm	28.6mm
<b>Lower fork steerer tube OD</b>	38.1mm	38.1mm
<b>Bottom bracket type/width</b>	T47/85.5mm	T47/85.5mm
<b>Brake rotor diameter min/max</b>	140/160mm	140/160mm
<b>Tire width max 700c (without fenders)</b>	45mm (1.8")	45mm (1.8")
<b>Tire width max 650b (without fenders)</b>	53.5mm (2.1")	53.5mm (2.1")
<b>Fender compatible — rear</b>	Yes	Yes
<b>Fender compatible — front</b>	Yes	Yes
<b>Rack mount compatible</b>	Yes	No
<b>Dropper post compatible</b>	Yes	No

	Chainline	Max chainring teeth (T)		
		Small	Large	Single (1x)
<b>Shimano GRX</b>	49.7mm	—	—	50T
	47mm	42T	52T	—
<b>Shimano</b>	43.5mm	36T	50T	—
<b>SRAM</b>	45mm	—	—	46T
	45mm	37T	50T	—
<b>SRAM WIDE</b>	47.5mm	—	—	48T
	47.5mm	44T	50T	—