



2022 BOONE

SERVICE MANUAL SUPPLEMENT

Contents



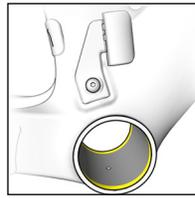
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	Dimension
Rear rack ØID	14.2mm
Seat post ØID	30mm
Seat post clamp ID	30.55mm
Upper fork steer tube ØID	28.6mm
Lower fork steer tube ØID	28.6mm
Head tube ØID, top/bottom	54mm/40mm
ØØ top/water	14.0/16.5mm
Brake rotor diameter	140/160mm
Chainline (D1)	43.7mm
Chainline (D2)	43.5mm
Chainring max (D1)	42
Chainring max (D2)	Small 44 Large 50
Tire width/cassette max (D1)	130/135mm
Dropper post compatibility	

[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

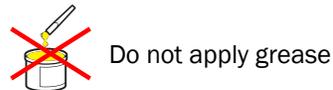
Reapply threadlocker

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.

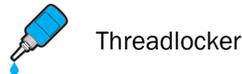
Legend



Grease



Do not apply grease



Threadlocker

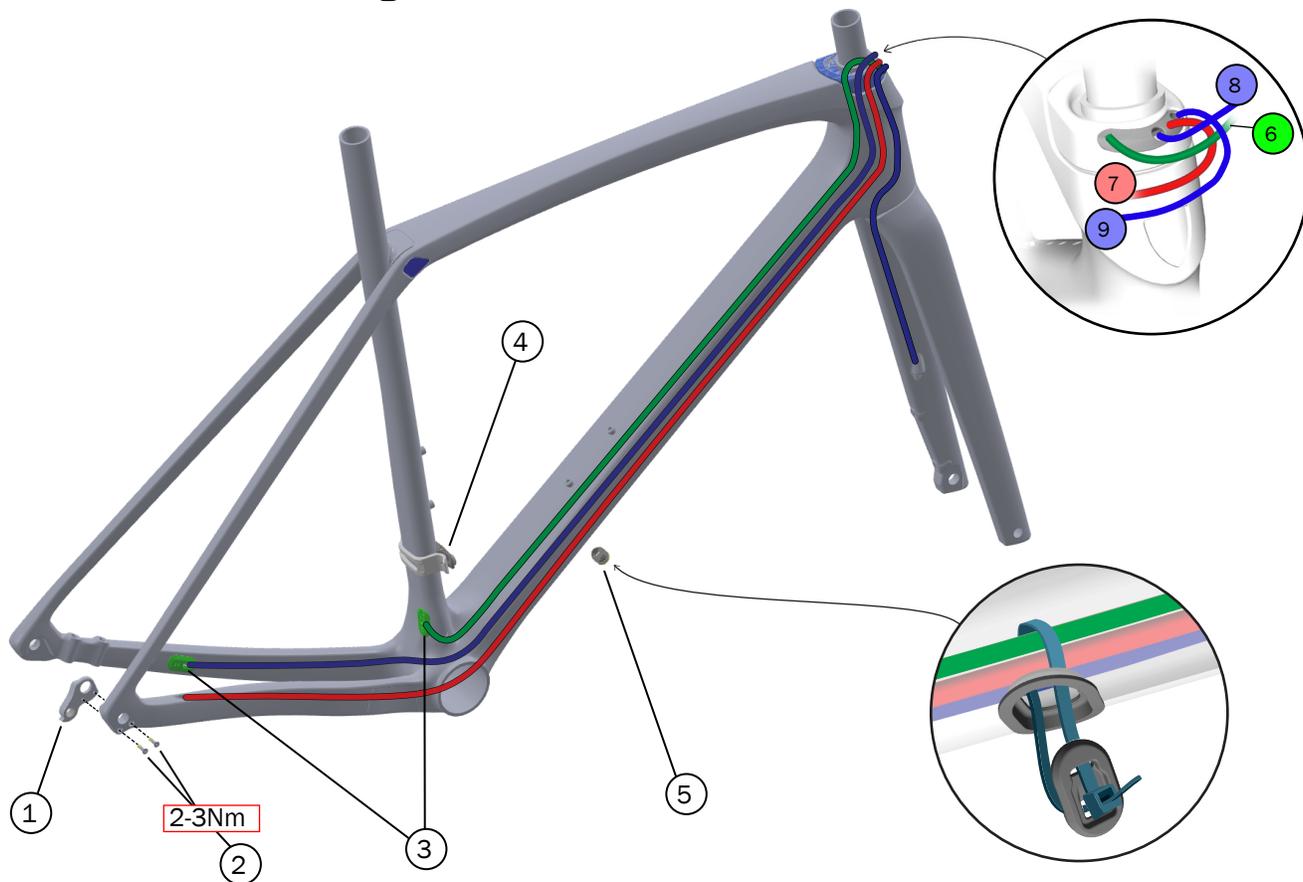


Torque



Zip tie

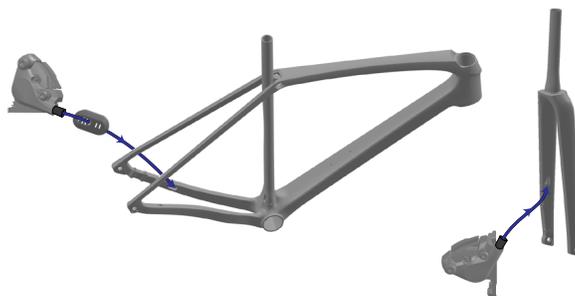
Brake/shift routing — mechanical



- ① Rear derailleur hanger — W524188
- ② Rear derailleur hanger bolts — W524884
- ③ Housing grommets — W330578
- ④ Front derailleur clamp — W5256886
- ⑤ Zip tie guide — W513997
- ⑥ Front derailleur cable
- ⑦ Rear derailleur cable
- ⑧ Front brake hose
- ⑨ Rear brake hose

Route the brake hoses

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



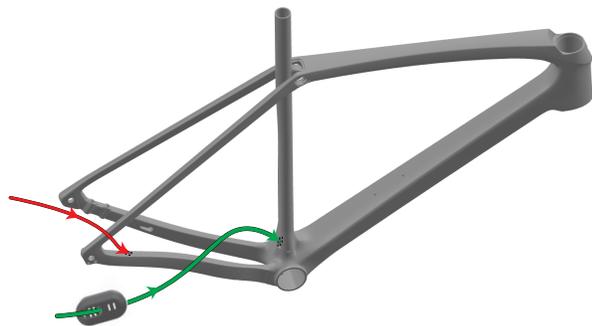
3. Attach the calipers to the chainstay and fork. Do not fully torque the mounting bolts until the calipers are aligned correctly.



Brake/shift routing — mechanical (continued)

Route the shift cables

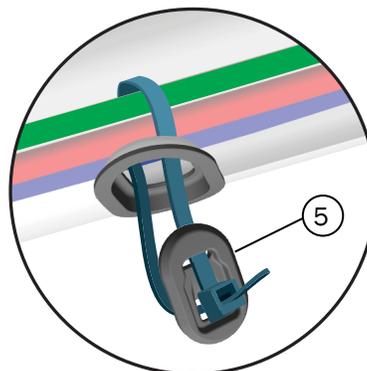
1. Mark the rear shift cable with a marker. You will need to tell the cables apart when you assemble the headset.
2. Route the front derailleur shift cable through the grommet (3). Route both shift cables through the frame as shown.



3. Attach the derailleurs to the bicycle.
4. Connect the shift cables to the derailleurs.

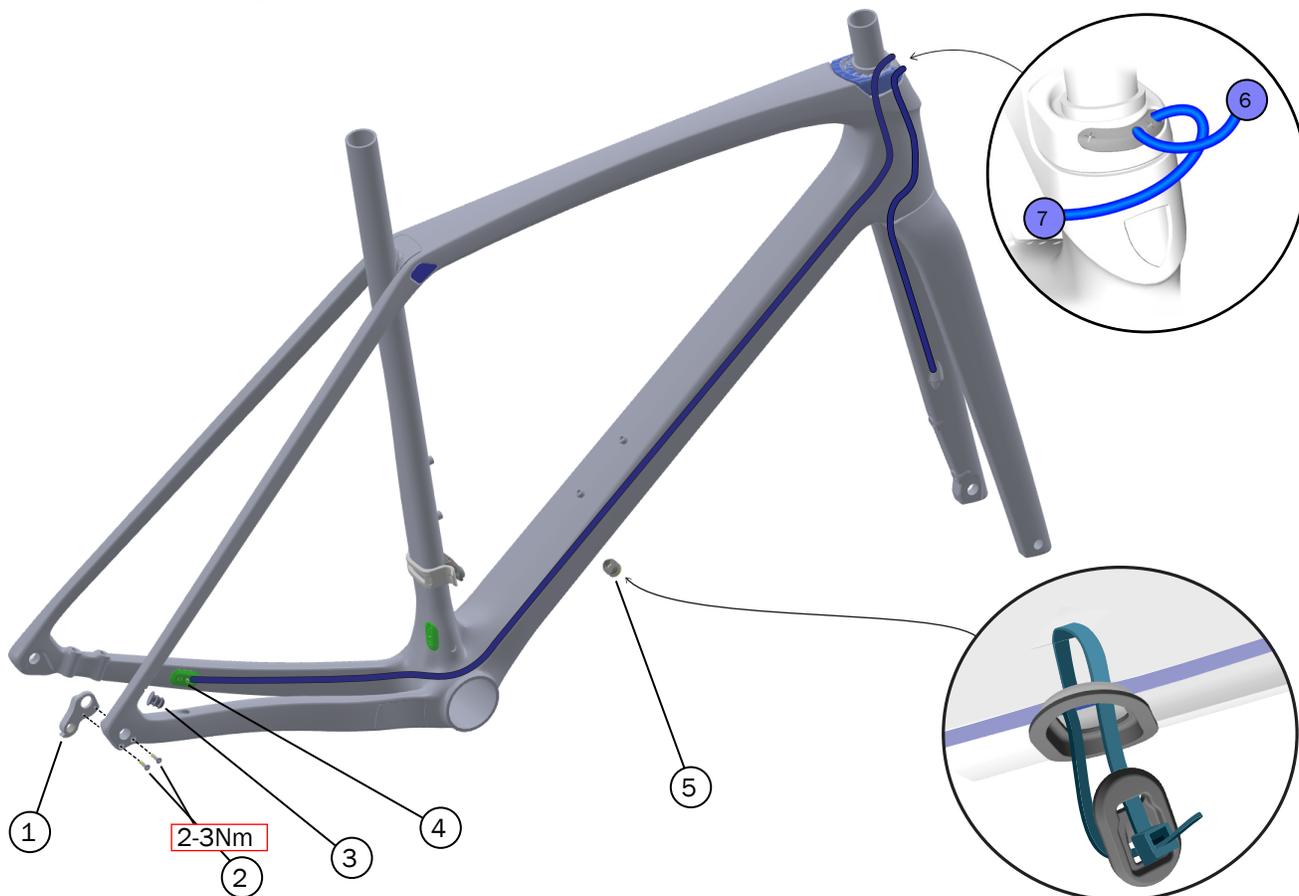
Zip tie the shift cables and rear brake hose

1. Bend the zip tie in half to create a crease. This will make it easier to wrap the zip tie around the cables and out through the hole.
2. Use a hook and a pick tool to hold the cables and guide the zip tie around them.
3. Route the zip tie through the zip tie guide (5) as shown below.



4. Insert the zip tie guide into the down tube and tighten the zip tie.

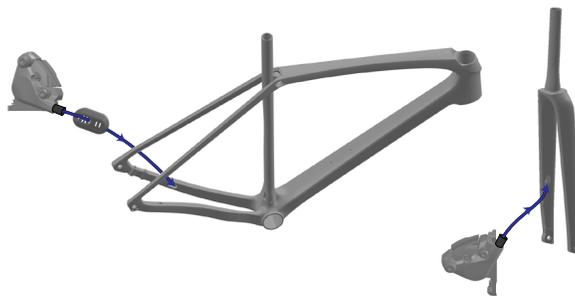
Brake routing — eTap



- ① Rear derailleur hanger — W524188
- ② Rear derailleur hanger bolts — W524884
- ③ eTap grommet plug — 600209
- ④ Housing grommet — W330578
- ⑤ Zip tie guide — W513997
- ⑥ Front brake hose
- ⑦ Rear brake hose

Route the brake hoses

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



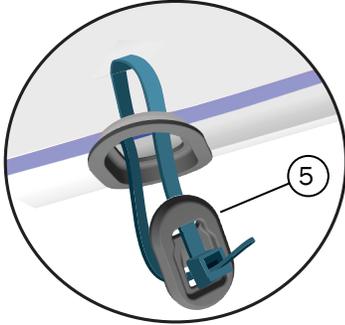
3. Attach the calipers to the chainstay and fork. Do not fully torque the mounting bolts until the calipers are aligned correctly.



Brake routing — eTap (continued)

Zip tie the rear brake hose

1. Bend the zip tie in half to create a crease. This will make it easier to wrap the zip tie around the cables and out through the hole.
2. Use a hook and a pick tool to hold the cables and guide the zip tie around them.
3. Route the zip tie through the zip tie guide (5) as shown.

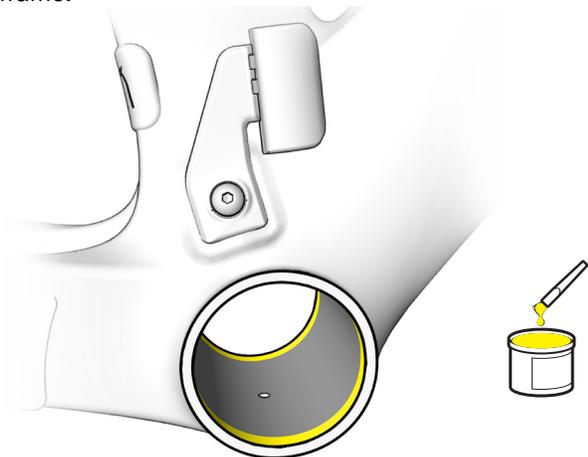


4. Insert the zip tie guide into the down tube and tighten the zip tie.

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).

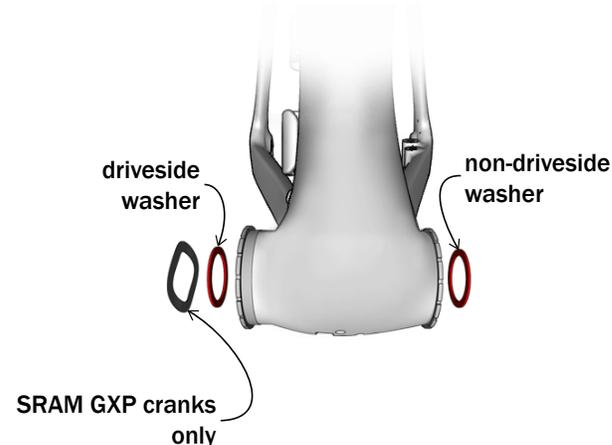
Tool and spline compatibility

		Tool Model Part number	Praxis		Unior	Park Tool	Wheels Mfg	CeramicSpeed
			TP-2400 594148	TP-3028 594147	1671.T47 1043614	BBT-47 568922	BBTOOL-48-44 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	

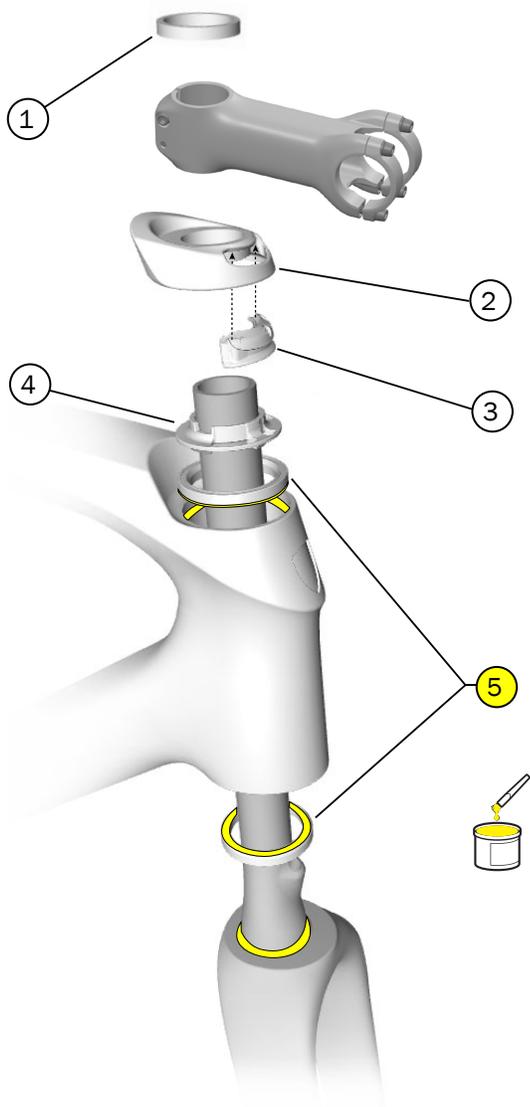
Spacers required

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	SRAM DUB	2-3mm	—
	GXP	Wheels MFG	1.0mm	—



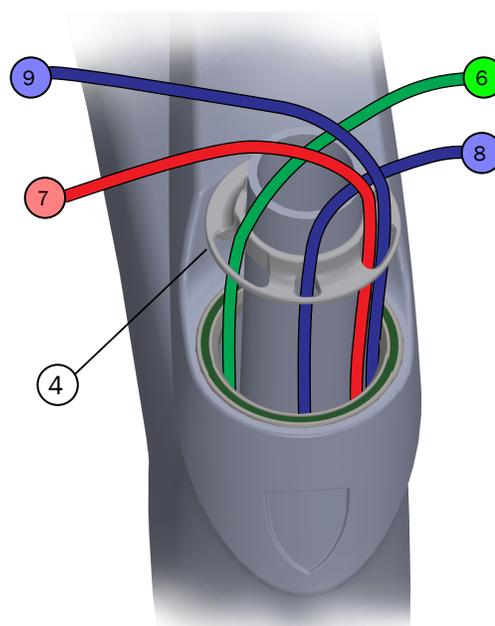
Fork and headset



- ① Spacer (5mm) – 5253930
- ② Frame routing cap grommet – W5253580
- ③ Frame routing cap – W5253579
- ④ Headset split ring – W5266050
- ⑤ Headset bearings – W540243
- ⑥ Front derailleur cable
- ⑦ Rear derailleur cable
- ⑧ Front brake hose
- ⑨ Rear brake hose

Install the headset

1. Clean the steerer tube using isopropyl alcohol.
2. Grease both bearings (5), the fork crown race, and the inside of the head tube 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 cables and brake hoses through the split ring (4) as shown below (see pages 2-5 for different routing examples).

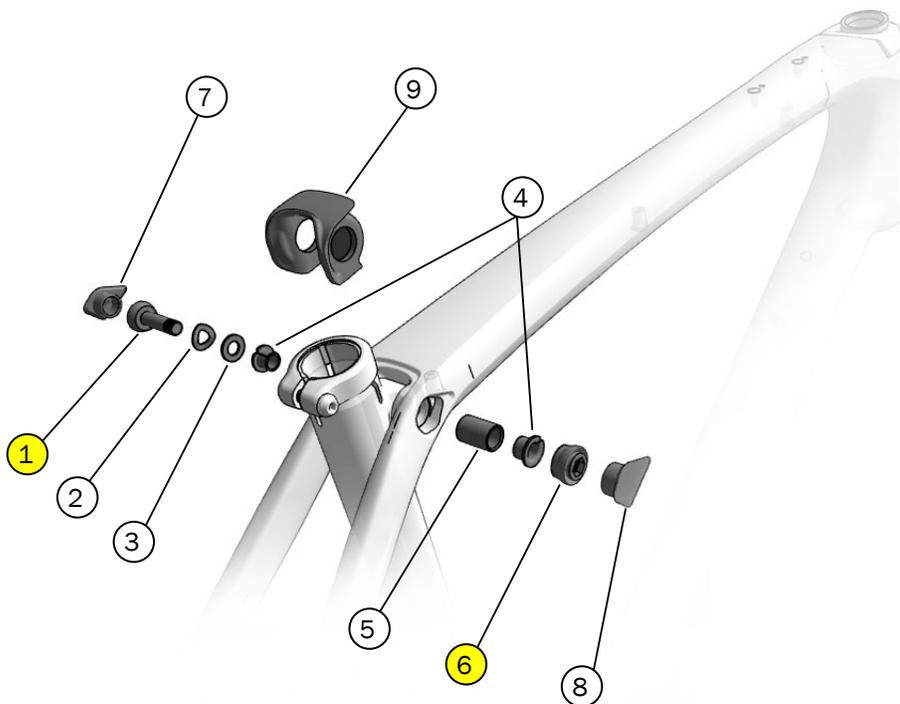


Mechanical routing example

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

NOTE: If cutting the steerer tube, cut 2mm above the stem. Make sure the stem is in its final position with the required spacers underneath.

IsoSpeed

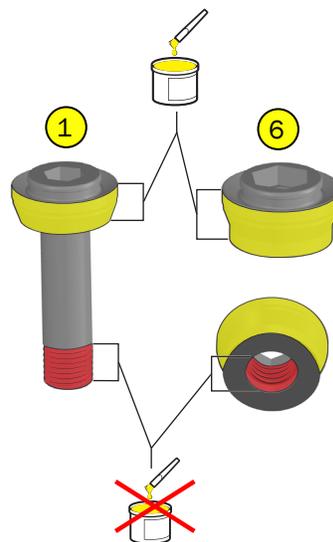


- ① Bolt
 - ② Wave washer
 - ③ Washer
 - ④ Flanged bushing
 - ⑤ Cylindrical bushing
 - ⑥ Nut
- } kit W569265
- ⑦ Cap, non-driveside (as shown) – 5253577
 - ⑧ Cap, driveside (as shown) – 5253576
 - ⑨ Grommet – W5253578

Install the IsoSpeed

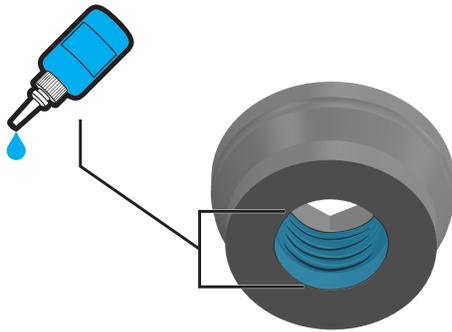
1. Carefully remove the IsoSpeed covers (7, 8) with a paint-safe plastic pry bar.
2. Disassemble the bolt (1) and nut (6).
3. Use a 50/50 isopropyl alcohol/water mix to clean the nut threads (6), bolt threads (1), and the inside of the bushings (4, 5).
4. Apply grease to the bolt (1) and nut (6) as shown below.

NOTICE: Do not apply grease to the threads.

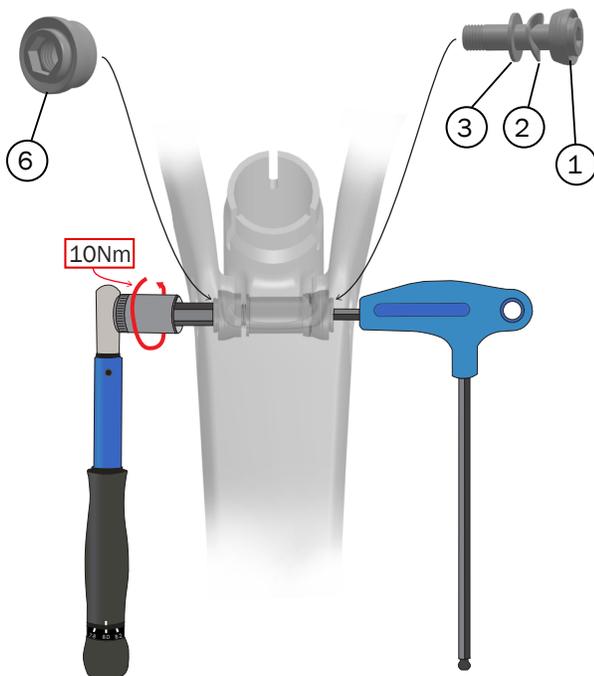


IsoSpeed (continued)

5. Apply threadlocker to the nut threads (6).



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

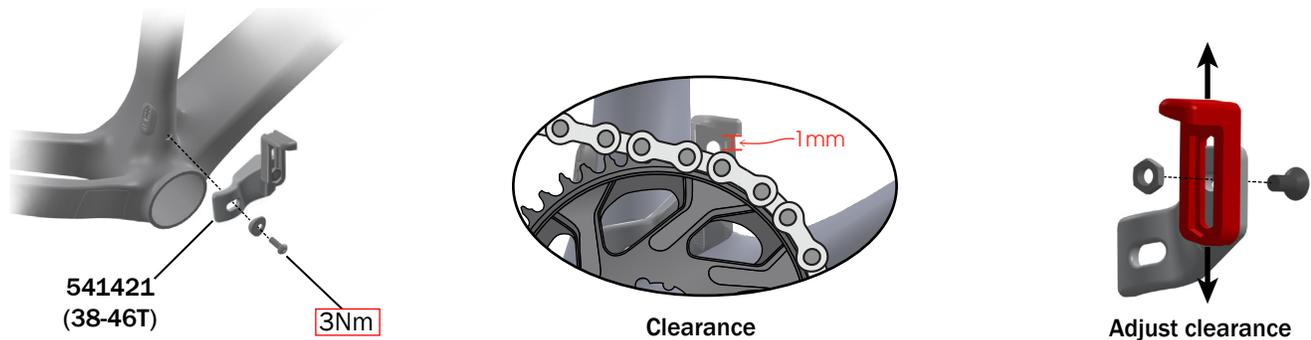


7. Re-install the IsoSpeed covers.
8. Allow the assembly to cure for 24 hours at room temperature (72°F/22°C).

Chainkeeper

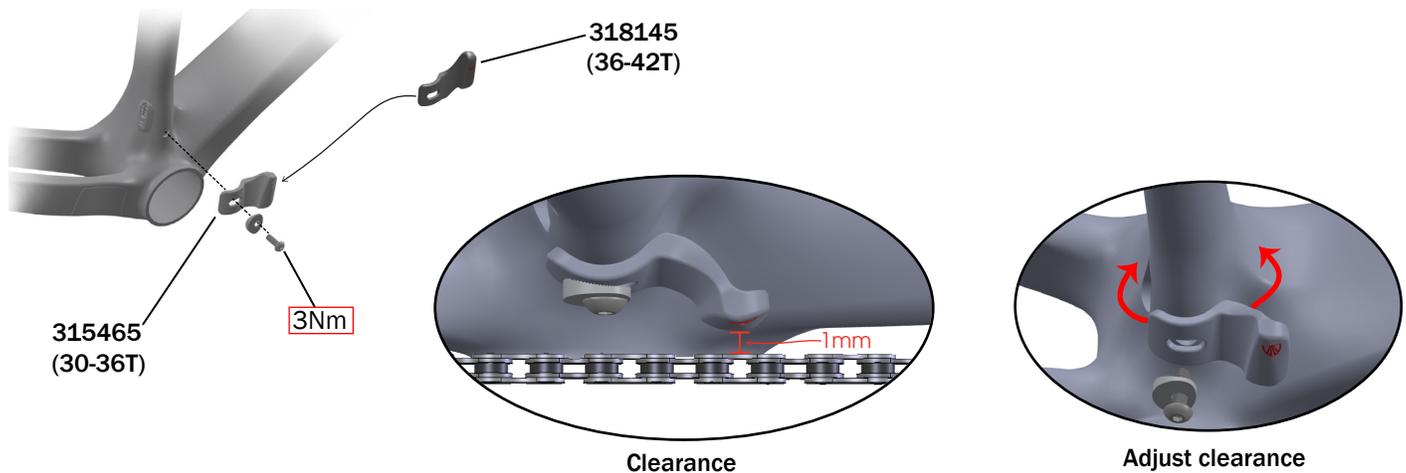
Adjust the chainkeeper — 1x chainring

1. Shift to the lowest gear (largest rear cassette cog).
2. Loosen the screw on the back of the chainkeeper.
3. Move the loose piece up or down so there is 1mm of vertical clearance to the chain.
4. Tighten the screw on the back of the chainkeeper.



Adjust the chainkeeper — 2x chainrings

1. Shift to the lowest gear (largest rear cassette cog) and inner chainring.
2. Loosen the screw holding the chainkeeper in place.
3. Rotate the chainkeeper so there is 1mm of horizontal clearance to the chain.
4. Tighten the screw to 3Nm.



Specifications

		All models
Rear hub OLD		142mm
Seat post OD		30mm
Seat post clamp ID		30.15mm
Upper fork steerer tube OD		28.6mm
Lower fork steerer tube OD		38.1mm
Bottom bracket type/width		T47/85.5mm
Brake rotor diameter		140/160mm
Chainline (1x)		49.7mm
Chainline (2x)		43.5mm
Chainring max (1x)		42t
Chainring max (2x)	Small	34t
	Large	50t
Tire width max 700c		38mm (1.5")
Fender mount – rear		No
Fender mount – front		No
Rack mount		No
Dropper post compatibility		No