

Top Fuel — Gen 4

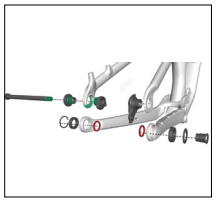
SERVICE MANUAL

Contents

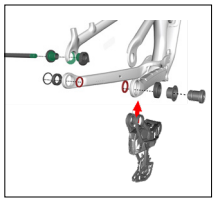


Safety

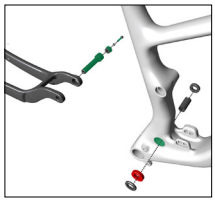
Linkage



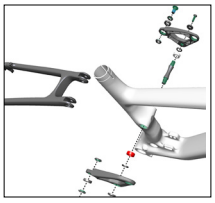
Active Braking Pivot with Universal Derailleur Hanger



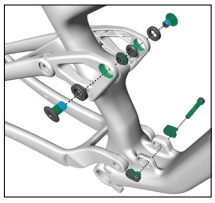
Active Braking Pivot with SRAM Transmission Derailleur



Main pivot and chainstay

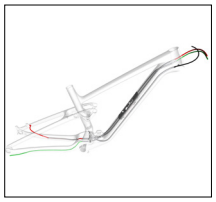


Rocker pivot and seatstay

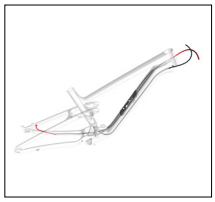


Rear shock hardware

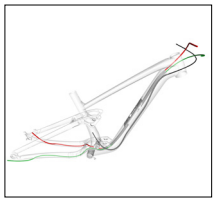
Routing



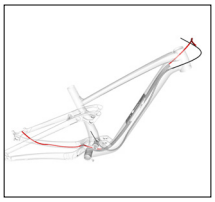
Carbon frame — routing with mechanical shift



Carbon frame — routing with AXS shift

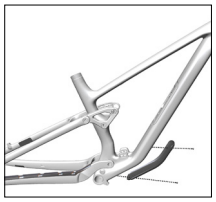


Alloy frame — routing with mechanical shift



Alloy frame — routing with AXS shift

Frame guards

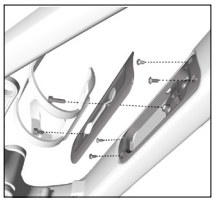


Carbon frame guards



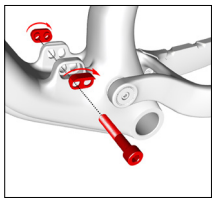
Alloy frame guards

Storage



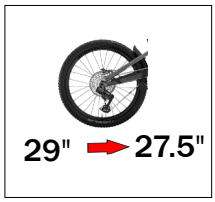
Down tube storage

Change progression and geometry



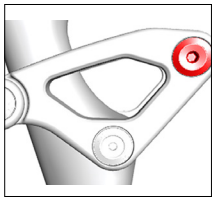
Adjust the progression and geometry

Change to 27.5" rear wheel



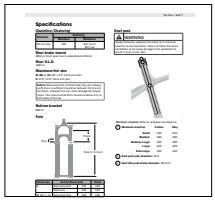
Change to a 27.5 rear wheel

Torque order



Torque order

Specs



Specifications

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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.

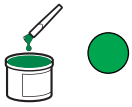
Scope

This manual contains parts diagrams, specifications (such as grease and torque values), instructions, and helpful tips. It does not contain instructions for all components (such as brake calipers). Refer to the original manufacturer for more information.

Additional resources

- Bicycle Owner's Manual: t*rekbikes.com/manuals*
- Trek's YouTube channel: *youtube.com/trekbikes*

Legend


Apply grease


Do not apply grease


Apply threadlocker

Nm — Torque

Zip tie

Inspect the bike

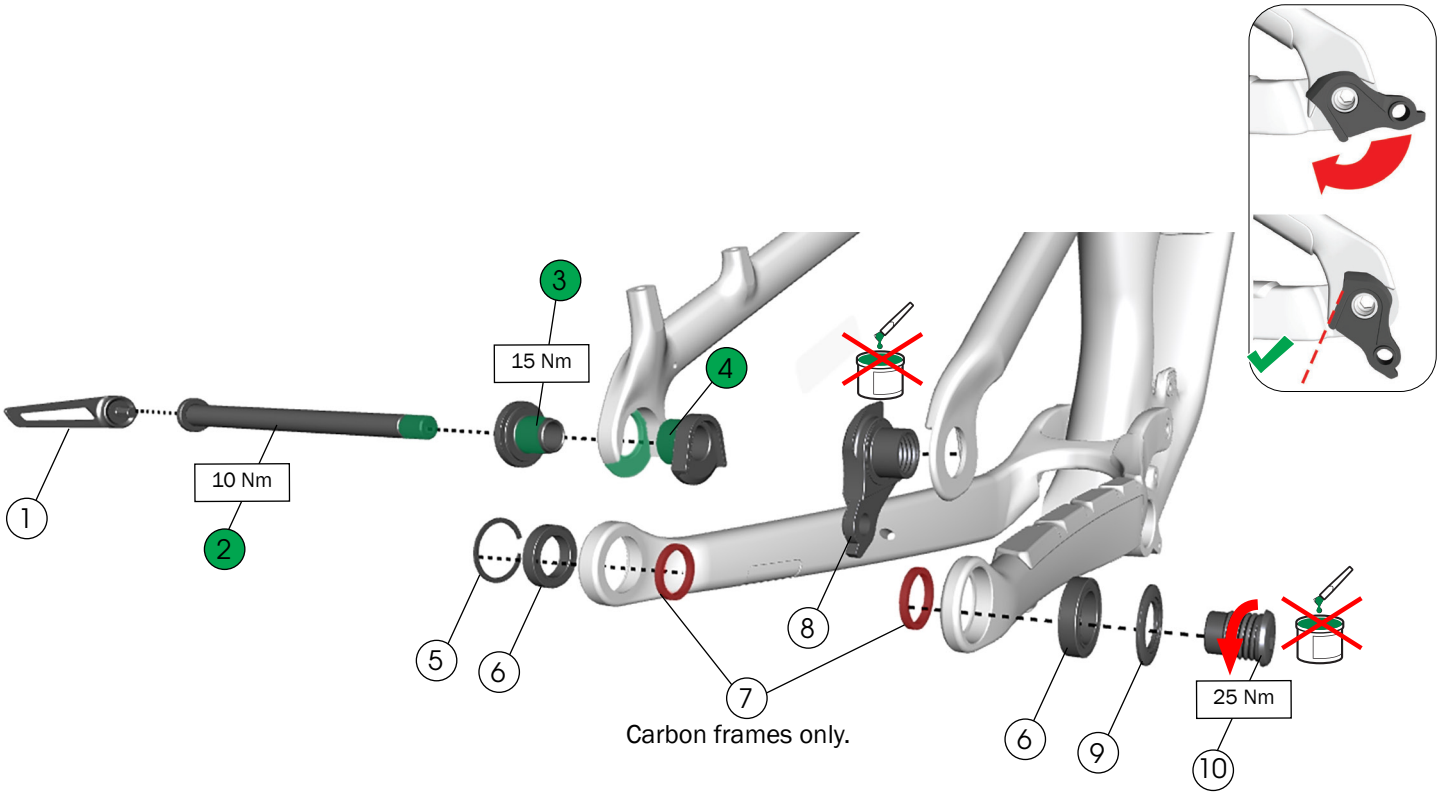
Please inspect the bicycle carefully after removal from the box and all packaging:

Inspect all surfaces of the bicycle for damage, pay spe¬-cial attention to the fork legs and the seat stays (both inside and outside surfaces).

If packaging damage is located near the front of the bicycle, remove the fork from the frame and inspect the steerer tube for damage.

Active Braking Pivot with Universal Derailleur Hanger

See Torque order on page 8.



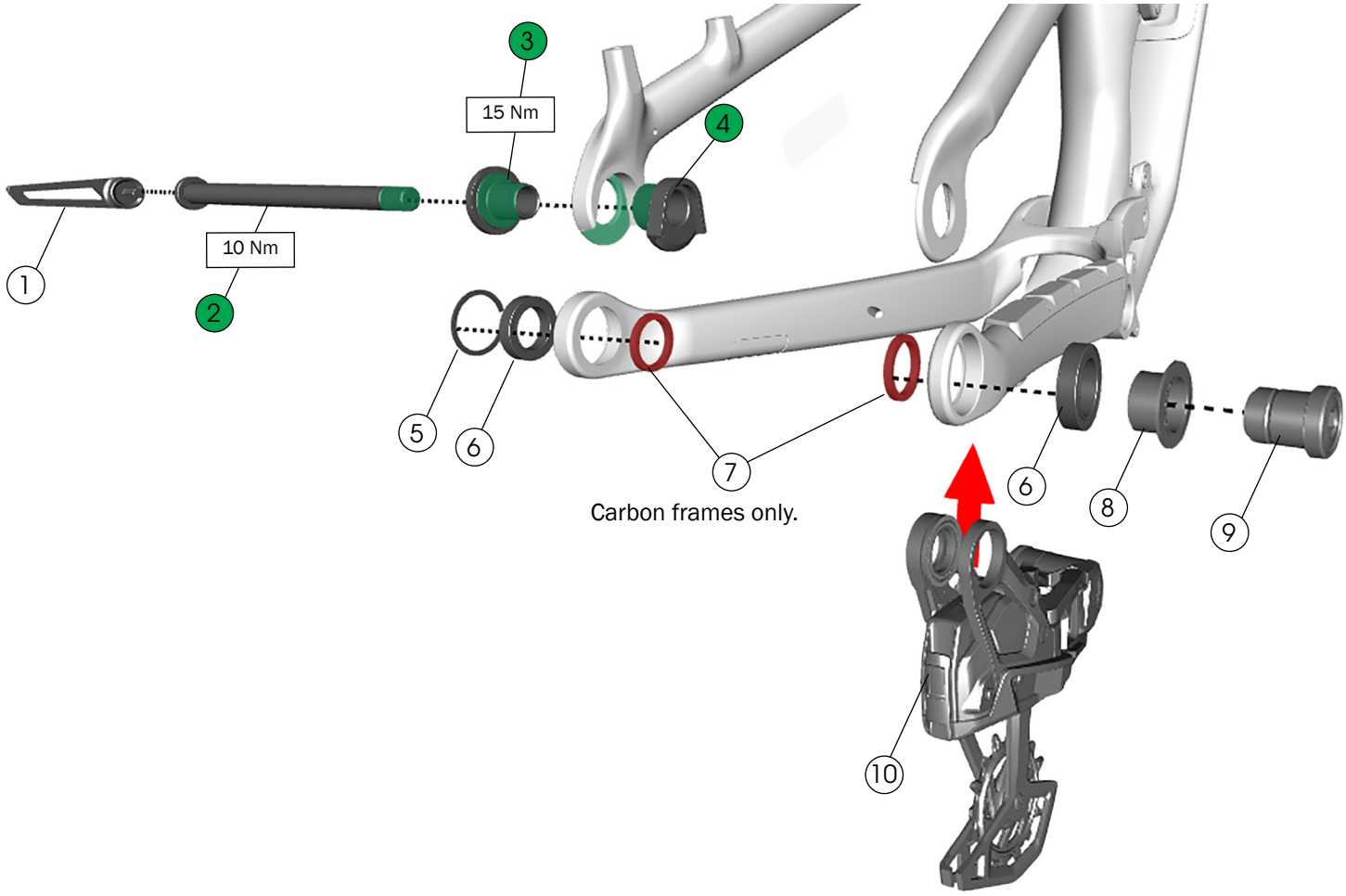
1. Switch lever — W573860
2. Thru axle, 12 X 184.5 mm — W583469
3. Non-driveside ABP bolt, M16 x 1 mm — W5251141
4. Non-driveside ABP dropout nut, M16 x 1 mm — W5269707
5. Retaining ring — W5251279
6. Bearings, 20 x 30 x 7 mm — W5256340
7. Spacers, 25 x 20 x 3 mm (carbon frames only) — W583422
8. Derailleur hanger
   NOTICE: Do not apply grease.
9. Washer, 30mm
   NOTICE: The washer is frame-specific. Install only the washer size specified.
10. Bolt
    NOTICE: Do not apply grease. Do not overtighten. Overtightening may damage the hanger.

— W5271425

— W5272776

Active Braking Pivot with SRAM Transmission Derailleur

See Torque order on page 8.



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5. Retaining ring — W5251279
6. Bearings, 20 x 30 x 7 mm — W5256340
7. Spacers, 25 x 20 x 3 mm (carbon frames only) — W583422

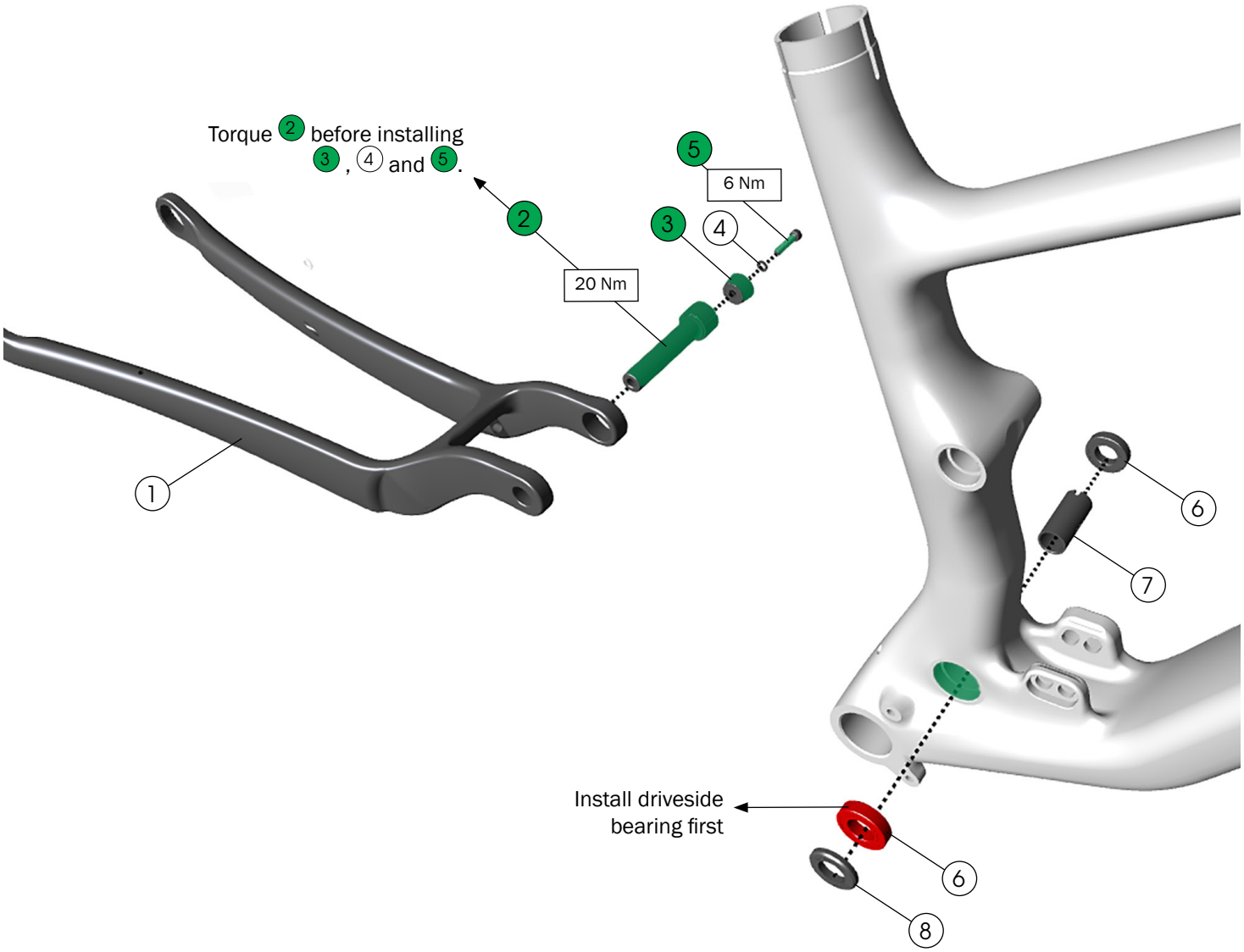
— W5272776

8. Bushing
9. Mounting bolt
10. SRAM Transmission Derailleur

— Refer to information on sram.com.

Main pivot and chainstay

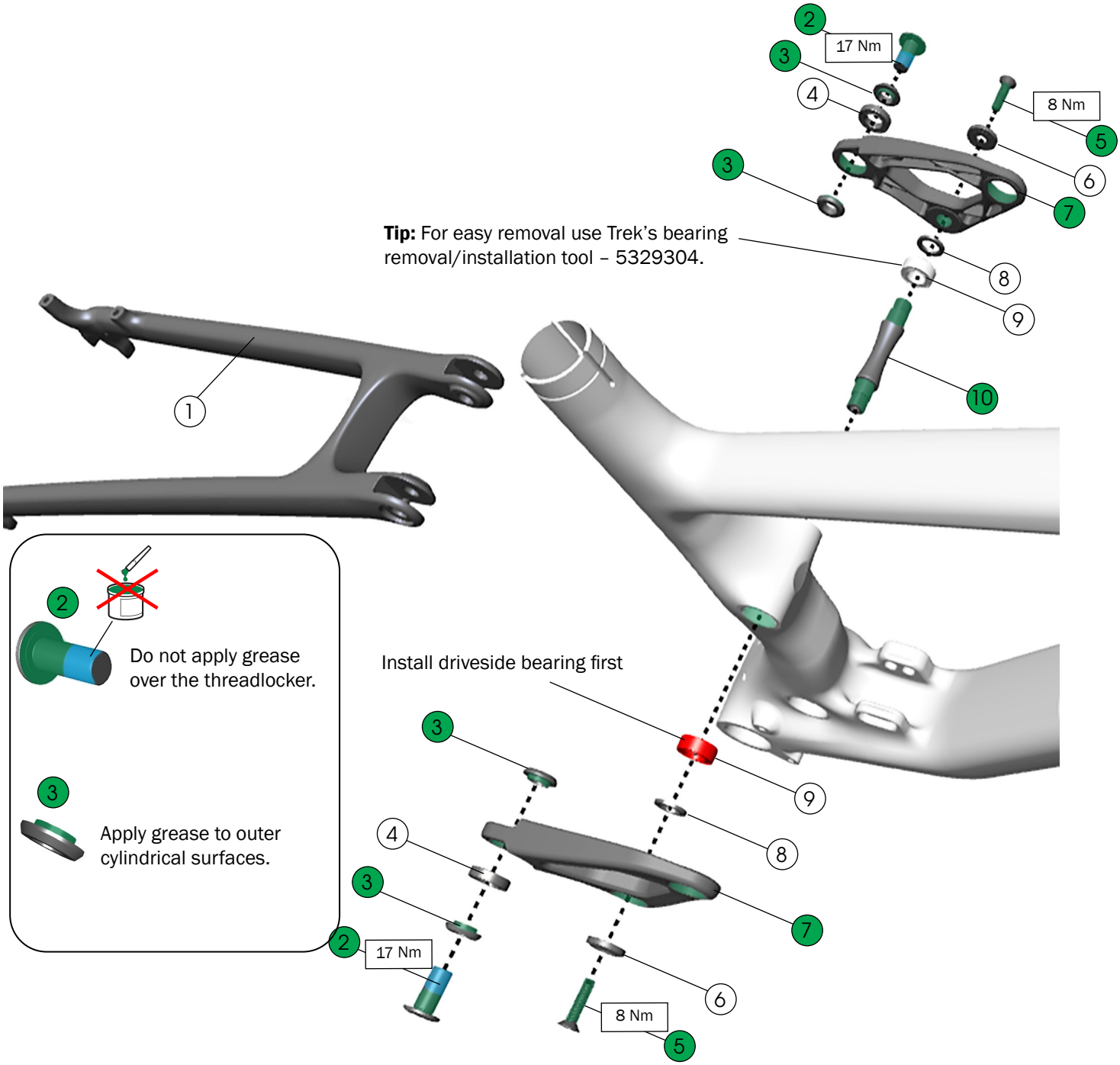
See Torque order on page 8.



1. **Chainstay***
   Carbon — 48279
   Alloy — 48280
   *Paint matched part. See trekbikes.com to find the color-matched part for your bike.
2. Collet axle, M15 — W5306810
3. Collet wedge — W5306811
4. Collet Washer, 5.3 x 9 x 1 mm — W5309244
5. Fastener, M5 x 25 mm — W5306809
6. Bearings, 15 x 28 x 7 mm — W5290782
7. Main pivot sleeve, 41.25 x 15 mm — W5290783
8. Spacer, 15 x 28 x 4 mm — W5307573

Rocker pivot and seatstay

See Torque order on page 8.

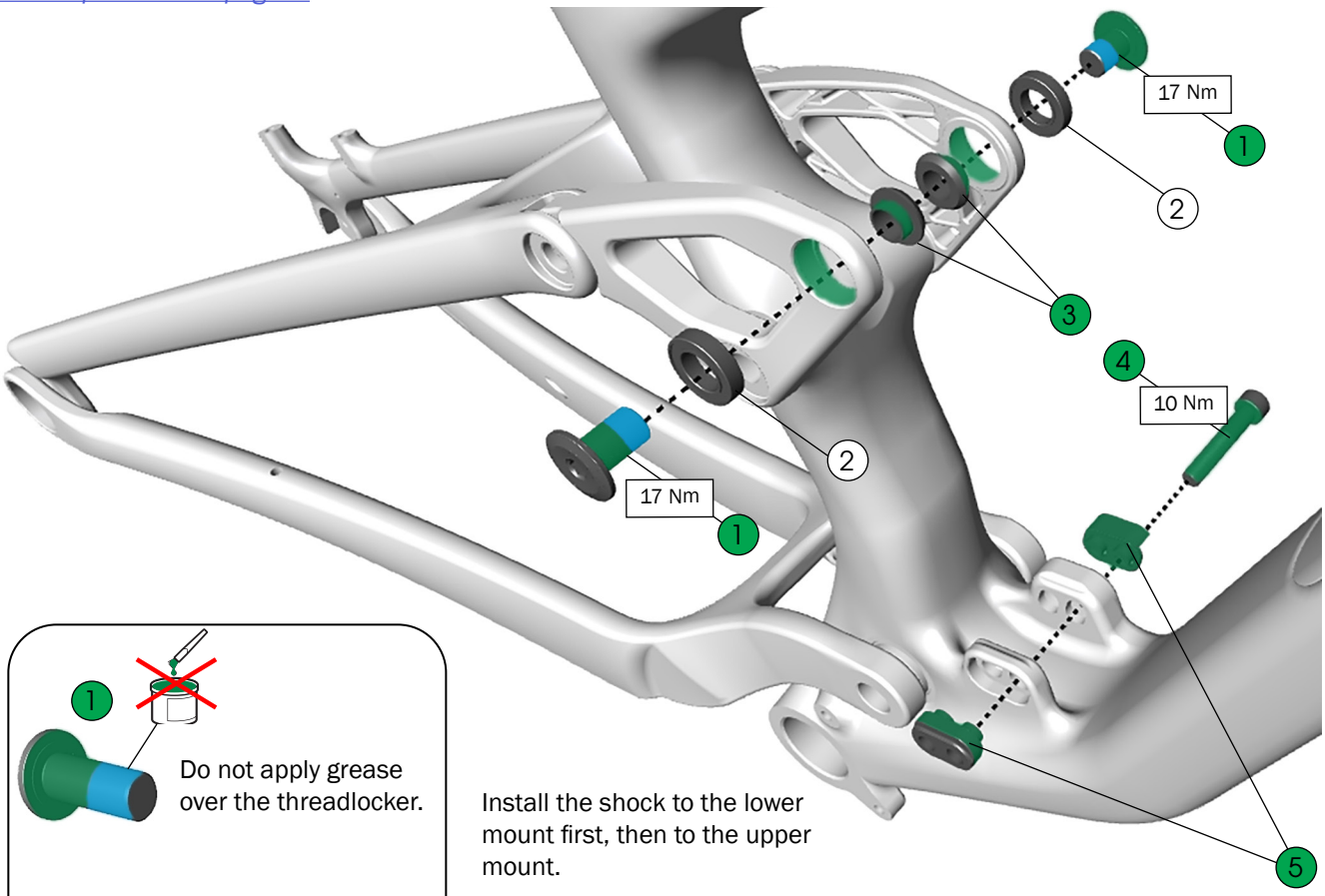


1. **Seatstay***
   Carbon — 48281
   Alloy — 48282
2. Fasteners, M10 x 21 mm — W600629
3. Hat-style washers, 10 x 3 mm — W5257190
4. Bearings, 12 x 21 x 5 mm — W5257592
5. Fasteners, M6 x 25 mm — W5270150
6. Concave washers, 6 x 20.5 x 4 mm — W5270027
7. Two-piece rocker pivot* — 48284
8. Spacers, 12 x 18 x 2 mm — W290057
9. Bearings, 12 x 21 x 8 mm — W5256341
10. Rocker link axle — W5315449

*Paint matched part. See trekbikes.com to find the color-matched part for your bike.

Rear shock hardware

See Torque order on page 8.



Do not apply grease over the threadlocker.

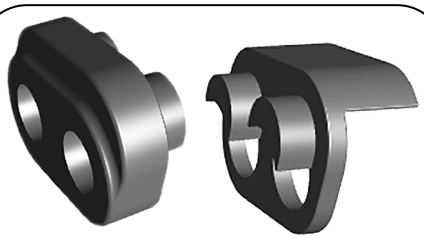


Apply grease to outer cylindrical surfaces.



Apply grease under fastener head and to threads.

Install the shock to the lower mount first, then to the upper mount.



Driveside Non-driveside

1. Fasteners, M10 X 16 mm — W5257188
2. Bearings, 12 x 21 x 5 mm — W5257592
3. Hat-style washers, 10 x 3 mm — W5257189
4. Fastener, M8 x 1.25 mm — W5274967
5. Lower shock Mino link kit — 5328505



Shock dimensions

Eye-to-eye length: 185 mm

Stroke length: 50 mm (55 mm max)

Upper mount: 54 mm x 10 mm (trunnion)

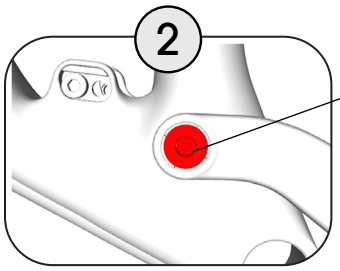
Lower mount: 30 mm x 8 mm

For a list of compatible shocks, refer to the FAQ on the Top Fuel product pages on trekbikes.com.

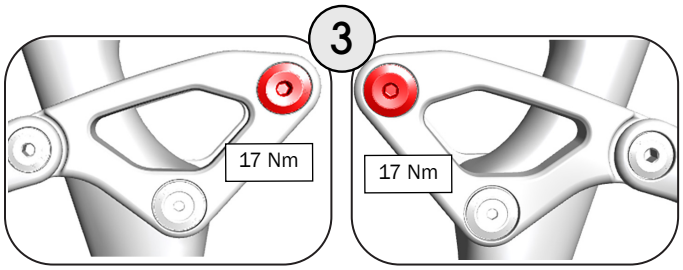
Torque order

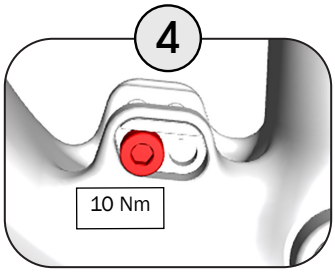


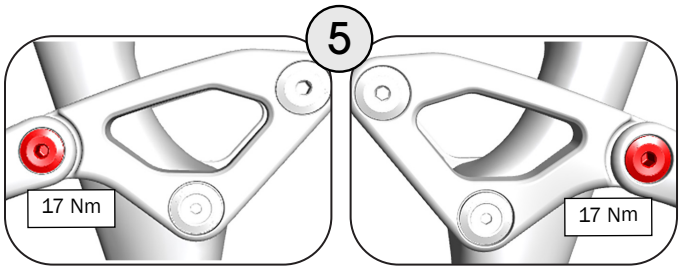
Important: Remove the bike from the bike stand and set it on the ground before torquing all fasteners to spec.

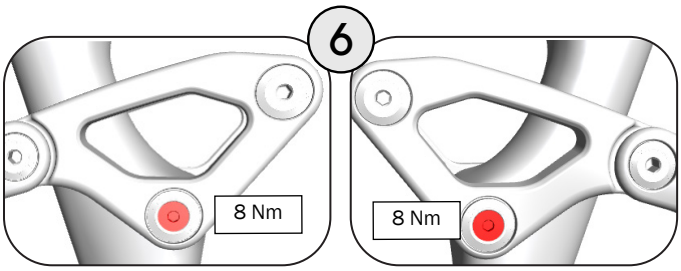


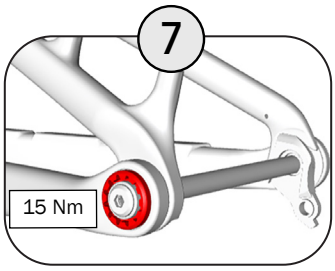
See *Main pivot and chainstay on page 5* for torque information for components.

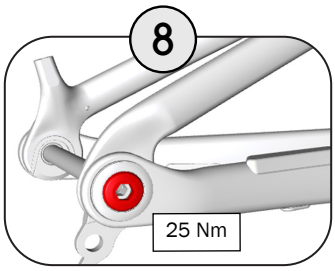


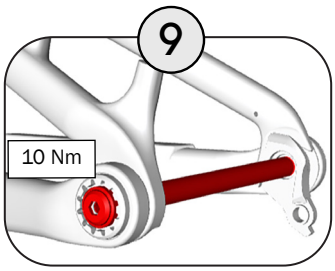




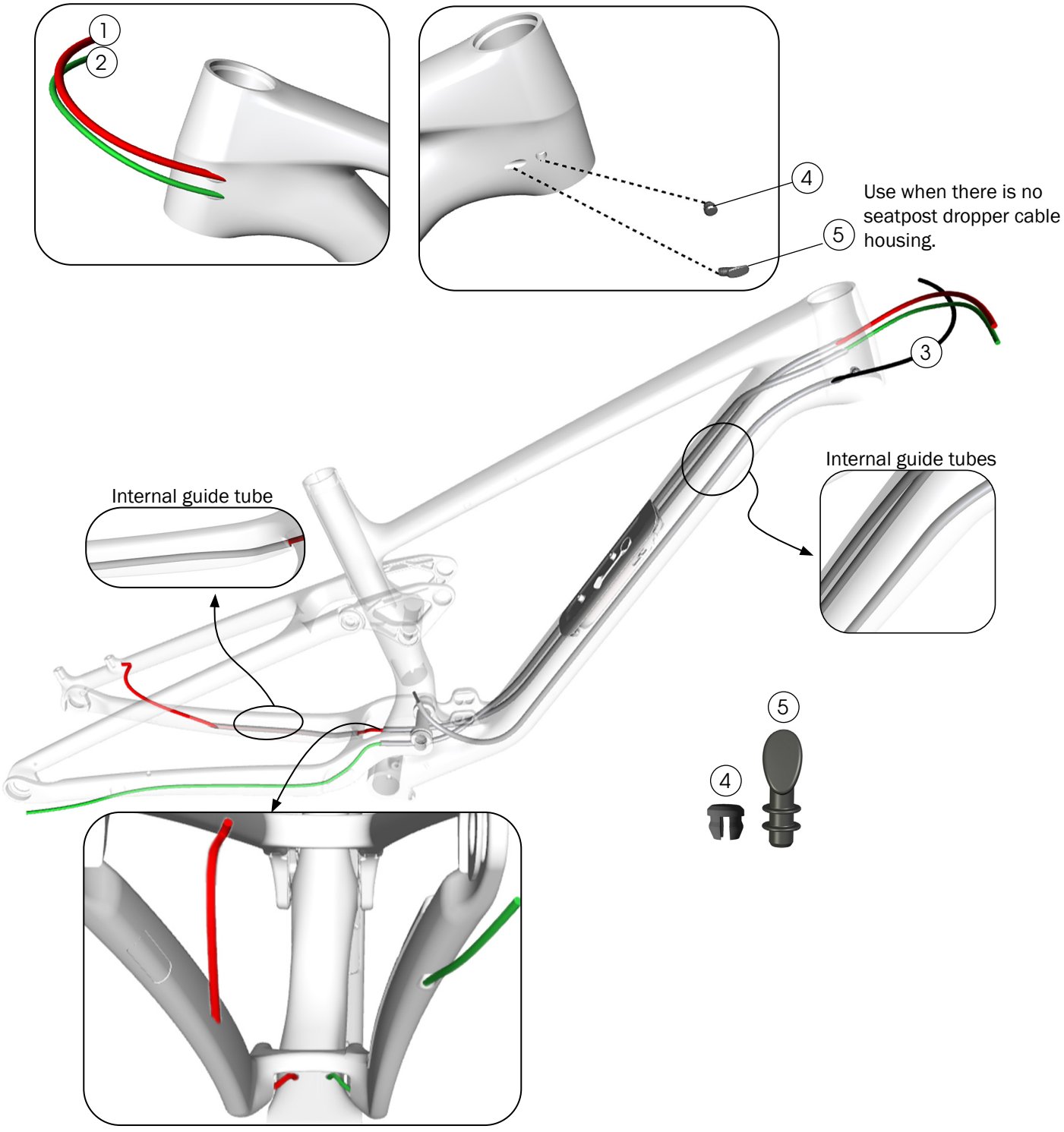






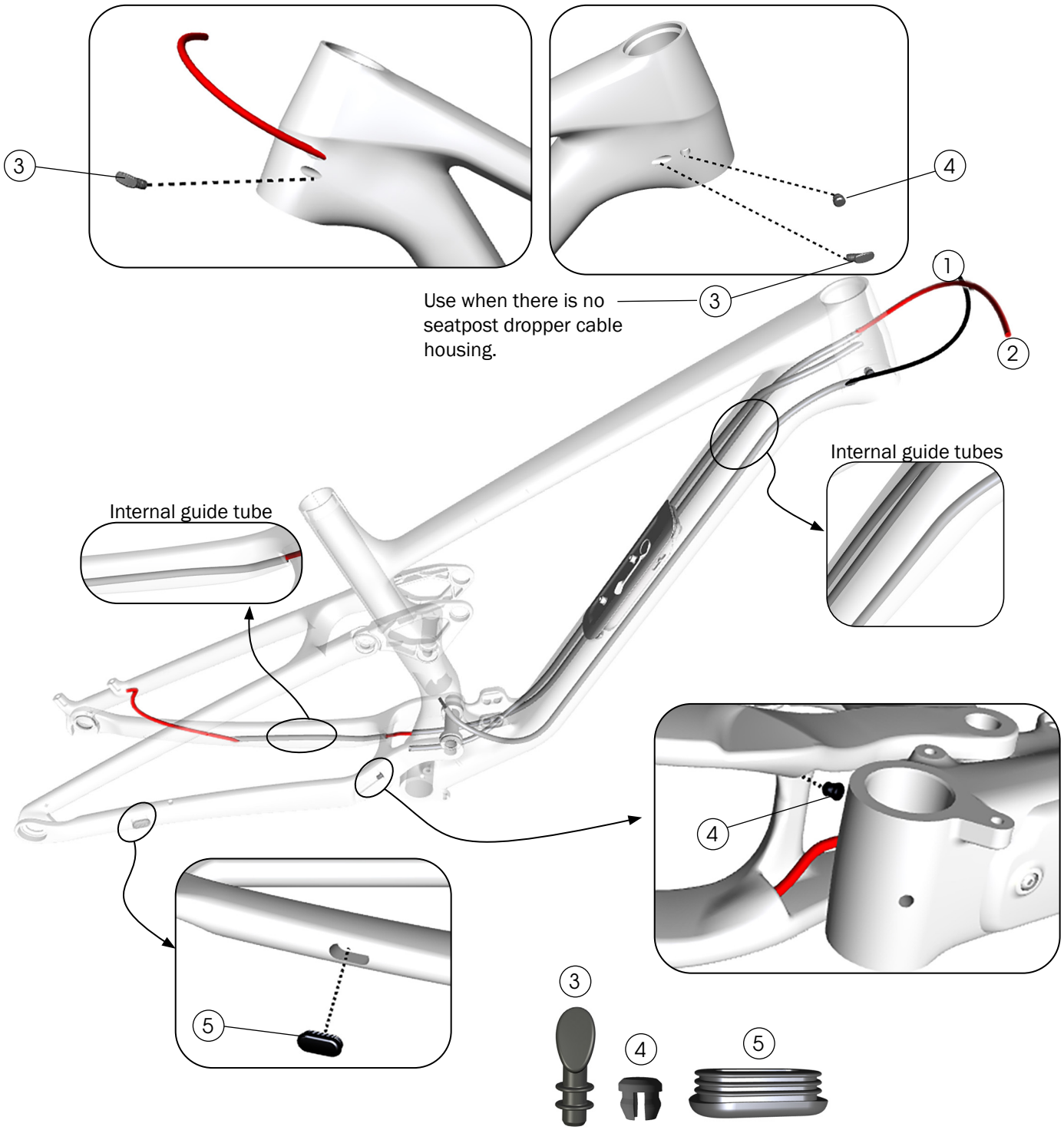


Carbon frame — routing with mechanical shifting



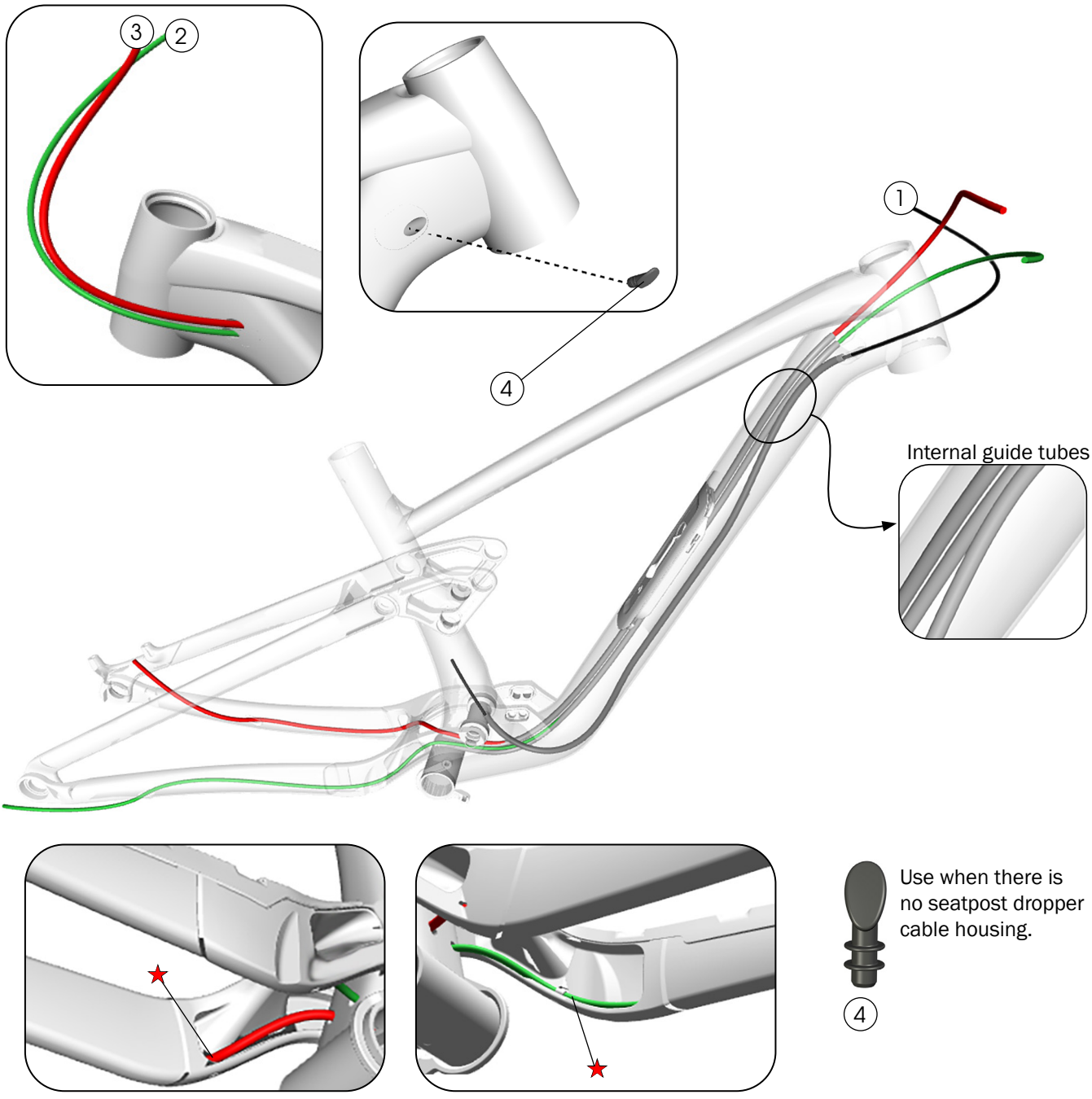
1. Rear brake hose
2. Rear derailleur cable housing
3. Seatpost dropper cable housing
4. Frame plug — W5275264
5. Frame plug — W600649

Carbon frame — routing with AXS shifting



1. Seatpost dropper cable housing
2. Rear brake hose
3. Frame plug — W600649
4. Frame plug — W5275264
5. Chainstay plug — W5259425

Alloy frame — routing with mechanical shifting



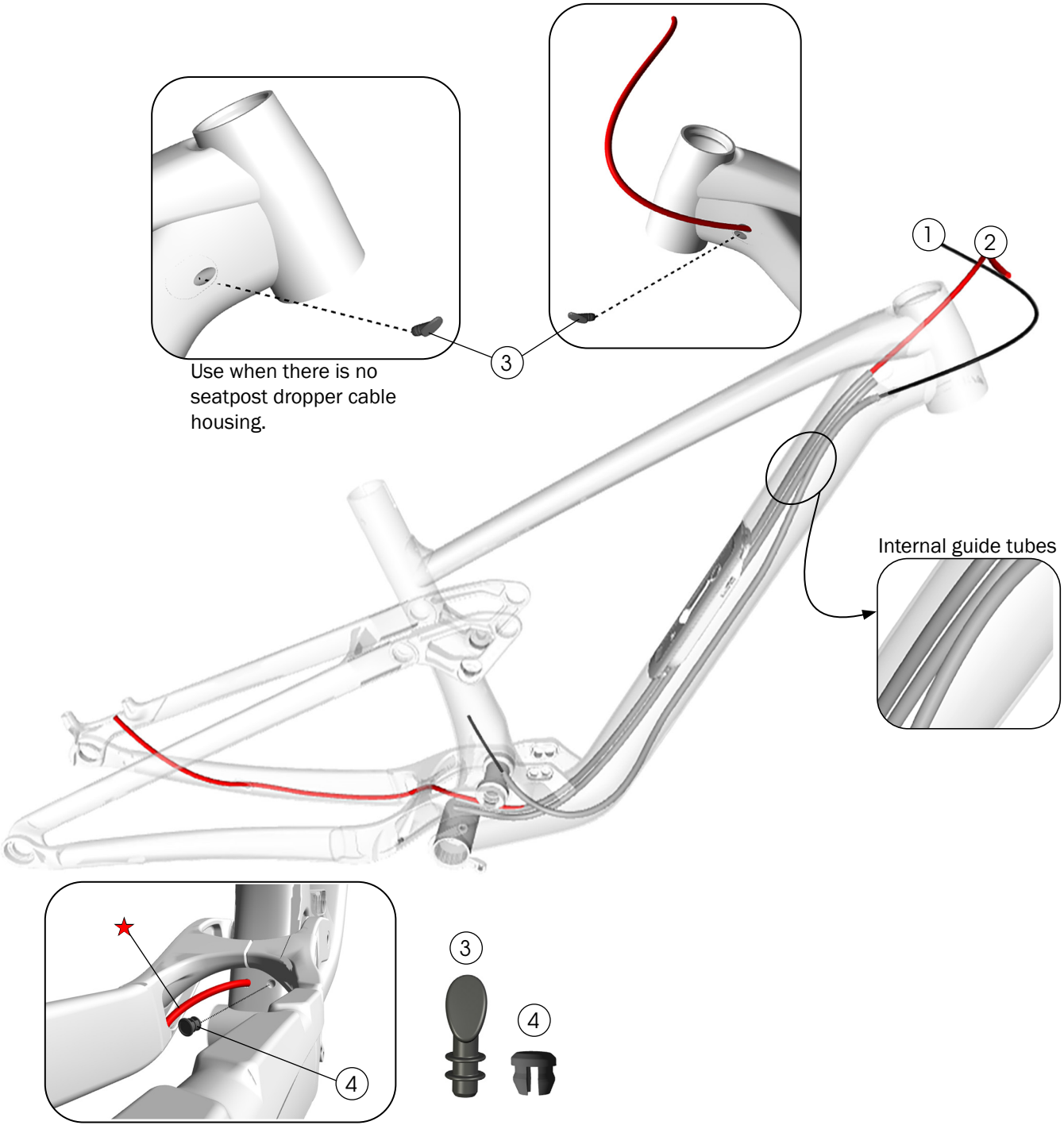
Use when there is no seatpost dropper cable housing.

4

1. Seatpost dropper cable housing
2. Rear derailleur cable housing
3. Rear brake hose
4. Frame plug, use when there is no dropper housing — W600649

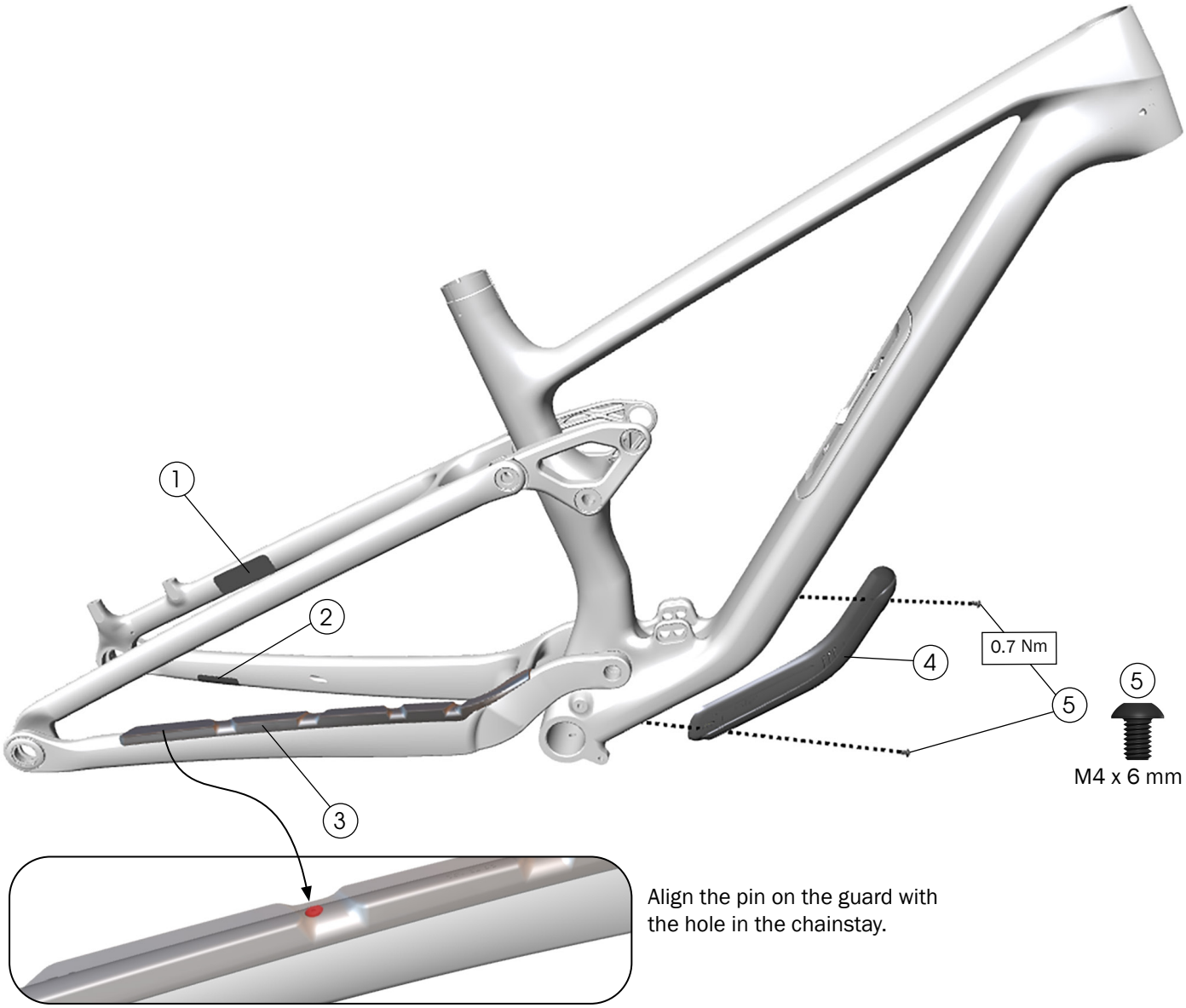
★ Zip tie

Alloy frame — routing with AXS shifting



1. Seatpost dropper cable housing
2. Rear brake hose
3. Frame plug — W600649
4. Frame plug — W5275264
★ Zip tie

Carbon frame guards



Align the pin on the guard with the hole in the chainstay.

1. Brake hose adhesive guard — W326986
2. Rotor bonded guard — W5317608
3. Chainstay adhesive guard — W5316755
4. Down tube guard — W5316754
5. Fasteners, M4 x 6 mm — W575056

Adhesive guards 1 3

Use isopropyl alcohol to clean the frame surface where the guards 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.

Bonded guard 2

1. To improve adhesion, use sandpaper to roughen the backside of the guard and/or remove remnants of the old epoxy.
2. Attach the guard with a two-part epoxy.
3. Allow the guard and epoxy to cure for 24 hours.

Alloy frame guards



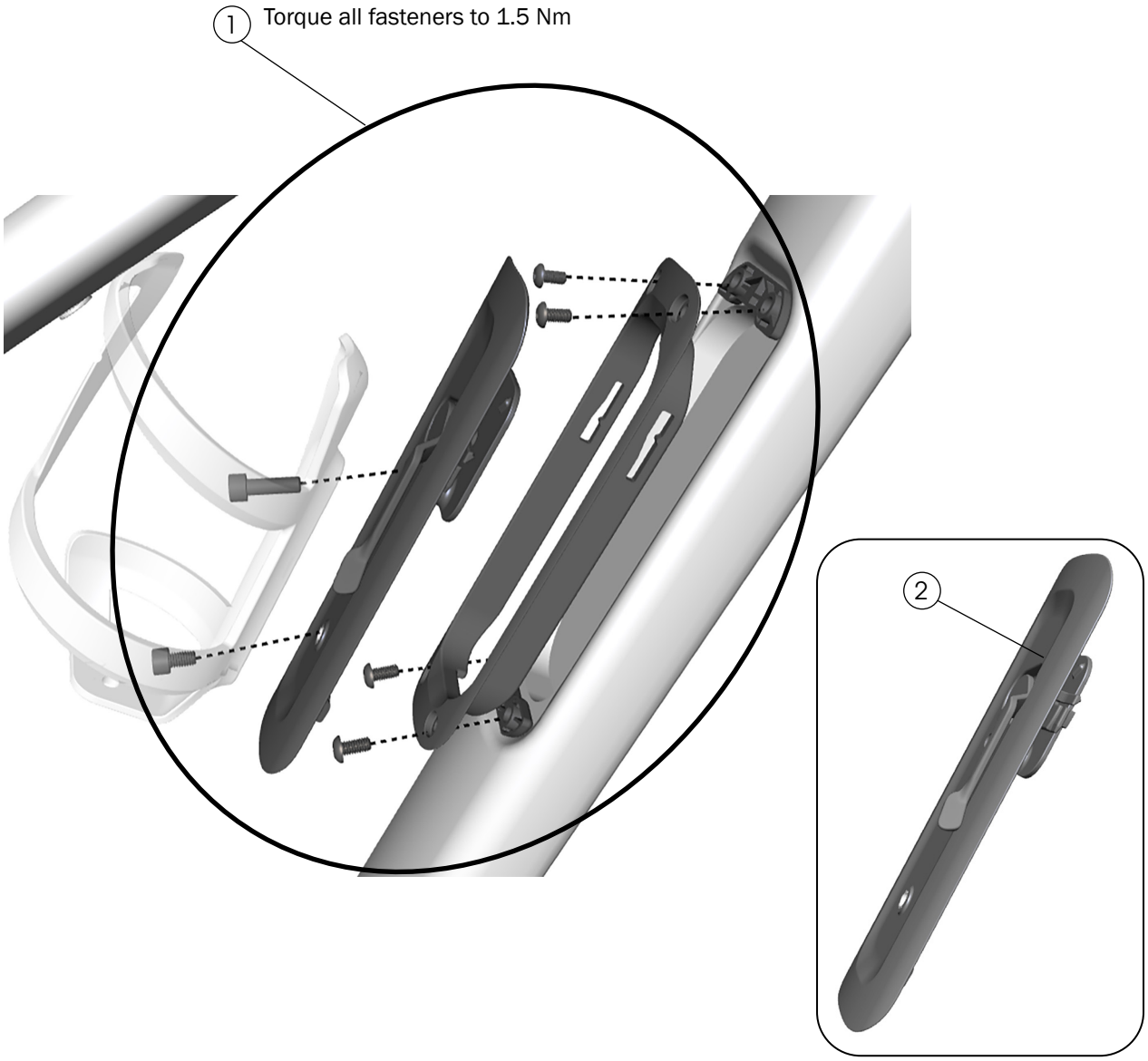
1. Brake hose adhesive guard — W326986
2. Chainstay adhesive guard — W5317861
3. Down tube adhesive guard — W5258504

Adhesive guards

Use isopropyl alcohol to clean the frame surface where the guards 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.

Down tube storage

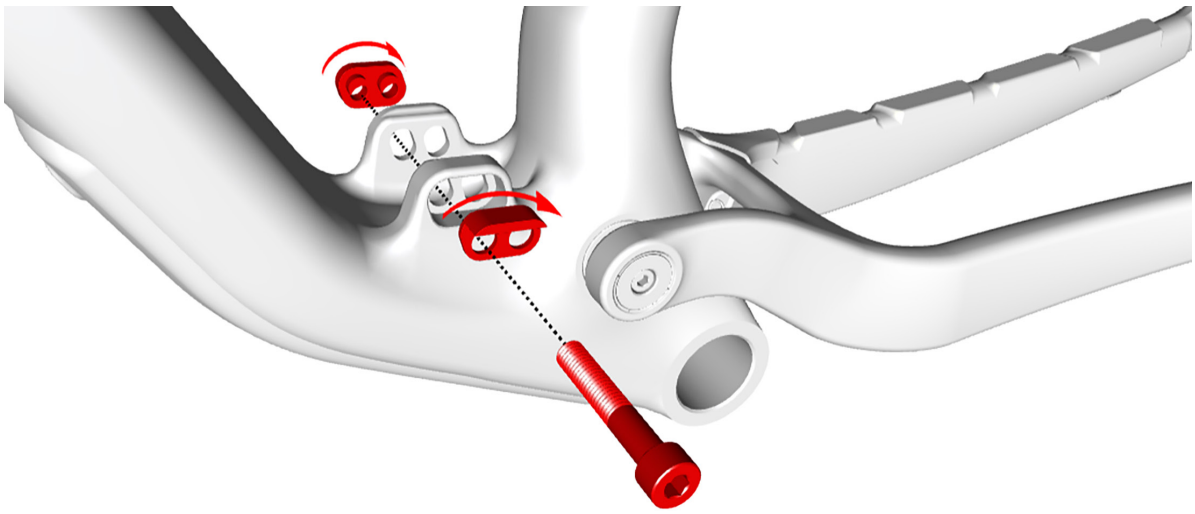


1 Down tube storage assembly with matte black door — W5297657

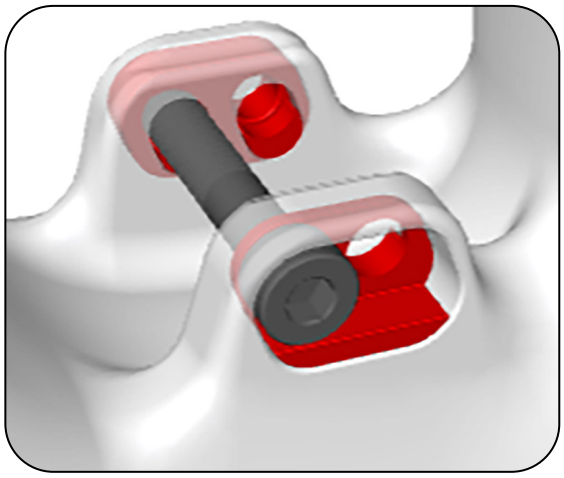
2 Paint-matched storage door only
Carbon frames — 48285
Alloy frames — 48286
See both part numbers on *trekbikes.com* to see all color options.

Important: Also order 1 to receive the fasteners, lever, and base.

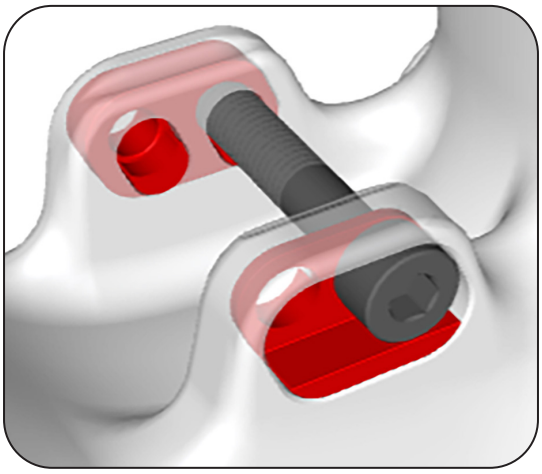
Adjust the progression and geometry



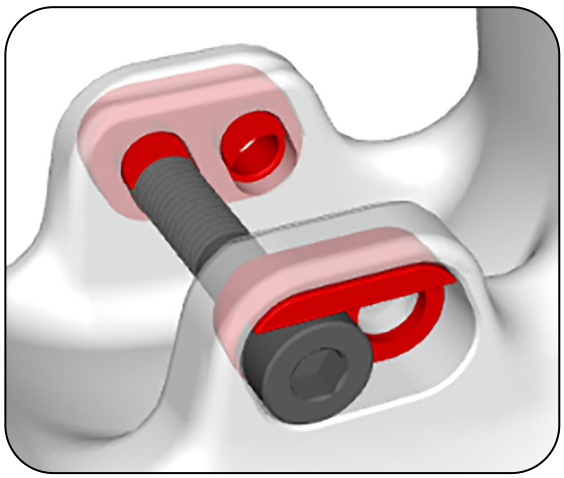
1. Remove the lower shock bolt.
2. Reposition the bolt and/or rotate the driveside and non-driveside Mino Links as shown below.



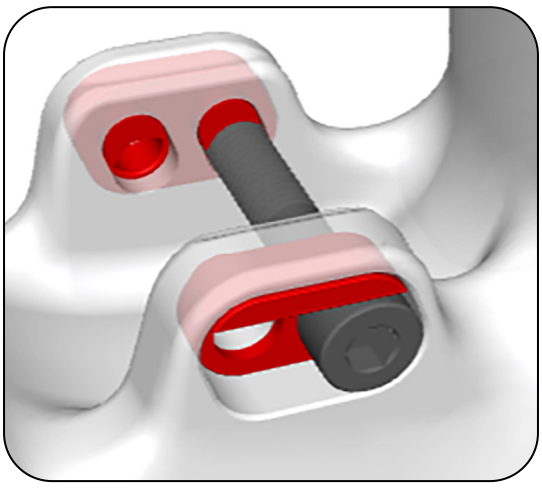
Mino high and less progression



Mino high and more progression



Mino low and less progression

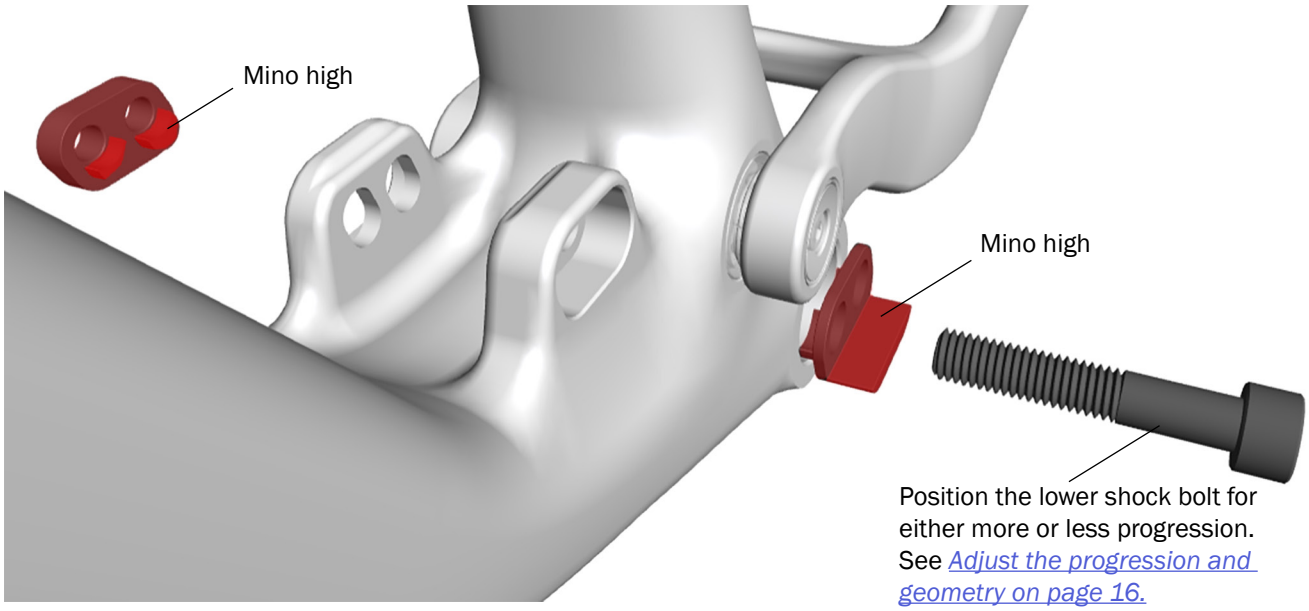


Mino low and more progression

Change to a 27.5" rear wheel

The rear wheel on size M-XL large bikes can be switched to a 27.5" wheel, Trek recommends:

- The Mino Link is set to High position (see below) and
- The bike has a fork with 140 mm of travel.



Specifications

Chainline/Chainring

Chainline	Chainring	
	Minimum	Maximum
55 mm only	30T	34T round 32T oval

Rear brake mount

180 mm direct post mount, adaptable to 203 mm

Rear O.L.D

148 mm

Maximum tire size

M, ML, L, XL: 29" x 2.5" (front and rear)

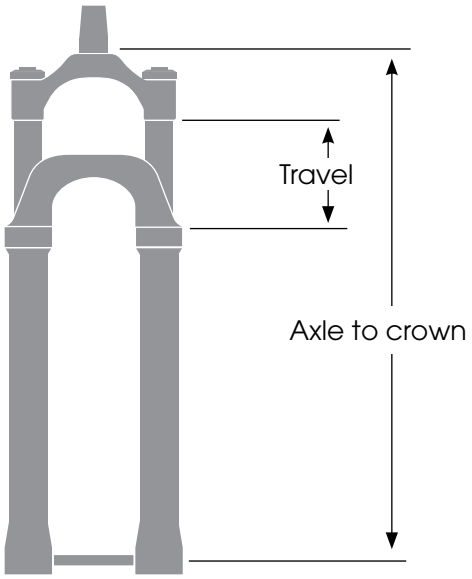
S: 27.5" x 2.5" (front and rear)

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 6 mm clearance above and on both sides of the tire.

Bottom bracket

BSA73

Fork



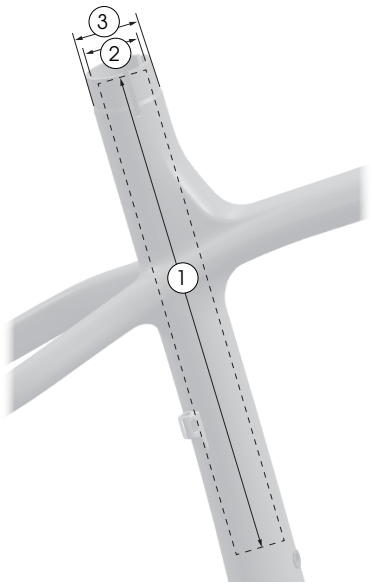
Frame size	Axle to crown (mm)		Travel (mm)
S	Recommended	521	130
	Maximum	531	140
M, ML, L, XL	Recommended	541	130
	Maximum	551	140

Recommended sag: Refer to the suspension calculator at *Trekbikes.com/suspension-calculator.*

Seatpost

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.



Minimum insertion: Refer to seatpost manufacturer.

	Maximum insertion	Carbon (mm)	Alloy (mm)
	Small:	240	230
	Medium:	280	280
	Medium/Large:	295	290
	Large:	305	305
	Extra large:	340	340

2 **Seatpost outer diameter:** 34.9 mm

3 **Seat tube post-clamp diameter:** 39.5 mm

Headset

Upper: 41 mm

Lower: 52 mm