



<https://www.bicyclebolts.com/pages/bolt-sizing>

Brakes

1. Brake Bolt



Fasteners: One 5mm bolt, behind the top of fork below down tube, and one on the rear brake bridge above the wheel. Some brakes use a T25 bolt head.

Purpose: The brake bolt attaches brake system to both fork and rear brake bridge.

Tool: 5mm hex or T25 Torx wrench

2. Brake Cables

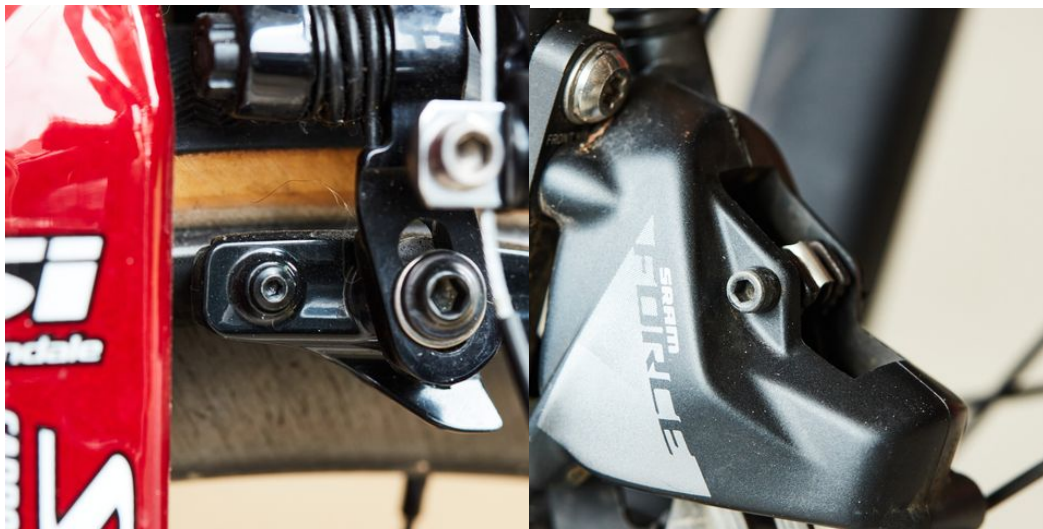


Fasteners: One 5mm cable pinch bolt, in the front and the rear. Also, some brakes have a spring-tension screw to allow adjustment for even tension on the brake caliper.

Purpose: Pulls calipers against rims.

Tool: 5mm hex wrench for pinch bolt; hex wrench or Phillips screwdriver (depending on type) for the spring-tension screw.

3. Brake-Pad Bolt



Fasteners: One 4 or 5mm bolt; brake pads with replaceable shoes also have a brake-shoe retaining bolt.

Purpose: Holds brake pad to brake caliper.

Tool: 4 or 5mm hex wrench

Stem / Bar

4. Faceplate



Fasteners: Two or four hex bolts, at the front of the faceplate.

Purpose: Secures the handlebar to the stem.

Tool: 4 or 5mm hex wrench

5. Top Cap



Fasteners: One adjusting bolt, on top of the stem.

Purpose: Holds together the headset, which connects the fork to the frame.

Tool: 4 or 5mm hex wrench

6. Stem



Fasteners: Usually two, sometimes one, pinch bolts, on the stem where it slides over the steerer tube.

Purpose: Secure the stem to the fork; pinch bolts offer adjustability that other bolts don't.

Tool: 4 or 5mm hex wrench or T25 Torx wrench

7. Shift/Brake Lever



Fasteners: One 5mm bolt, inside the brake lever at the top (Campagnolo), or on the outside under the brake hood (Shimano).

Purpose: Attaches the shift/brake lever system to the handlebar.

Tool: 5mm hex wrench

Seat

8. Saddle Clamp



Fasteners: One or two 4, 5 or 6mm hex bolts, on the clamp attached to the saddle rails.

Purpose: Attaches the saddle to the post; allows for adjustment.

Tool: 4, 5 or 6mm hex wrench

9. Seat Binder



Fasteners: One or two 4, 5 or 6mm binder bolts, on the clamp at the top of the seat tube right above the top tube.

Purpose: Secures the seatpost at the right height inside the seat tube.

Tool: 4, 5 or 6mm hex wrench

Crankset

10. Chainring



Fasteners: Four or five 5mm or T25 bolts, depending on the model.

Purpose: Holds the middle and large chainrings to each other, then to the crankarm; on a triple cassette, the small ring is attached by its own set of 5mm bolts.

Tool: 5mm hex or T25 Torx wrench

11. Crankarm



Fasteners: Fixing bolts (number and sizes vary). Newer Campy cranks attach at the center to the bottom bracket with a 10mm bolt; modern Shimanos attach to the nondrive side with two 5mm bolts; old-school types use 8mm bolts on both sides.

Purpose: Attaches the crankarm to the bottom bracket.

Tool: Hex wrench (size depends on crank model)

Derailleurs

12. Clamp Band



Fasteners: One 5mm clamp bolt, on the front derailleur.

Purpose: Attaches the front derailleur to the seat tube.

Tool: 5mm hex

13. Hanger



Fasteners: One 5mm bolt, on the rear derailleur.

Purpose: Attaches the derailleur to the hanger, which is suspended beneath the right rear dropout.

Tool: 5mm hex

14. Cable Anchor



Fasteners: One 5mm cable pinch bolt on both derailleurs.

Purpose: Secures the shifter cables and pulls them taut to allow for gear shifting.

Tool: 5mm hex

15. Rear Derailleur Jockey and Idler Pulleys



Fasteners: 3 or 4mm bolt, at the center of the pulley.

Purpose: Jockey pulley guides the chain from cog to cog; idler pulley keeps the chain tension constant.

Tool: 3 or 4mm hex

16. Front Derailleur Cage

Fasteners: Phillipshead screw.

Purpose: Holds the inner and outer cage plates together; separating them makes the chain more accessible for removal or replacement.

Tool: Phillips screwdriver

17. Limit Screws



Fasteners: Each derailleur has an upper and lower limit screw. Some are labeled U and L; if yours aren't, check with the manufacturer to find out which screw is which.

Purpose: One prevents the chain from jumping off the top of the cassette and into the spokes; the other keeps it from dropping off the smallest cog into the frame.

Tool: 3mm hex wrench or Phillips screwdriver

Frame

18. Bottle-Cage Mounts



Fasteners: Usually two sets, but sometimes as many as four, of 5mm bolts on the front triangle.

Purpose: Holds your bottle cages.

Tool: 5mm hex wrench

19. Cable Guide Bolt

Fasteners: Usually one 3 or 4mm hex bolt on the underside of the bottom bracket shell; not all bikes have one.

Purpose: Guides the front and rear derailleur cables; also secures them to the frame.

Tool: 3 or 4mm hex wrench