

Bike Repair Tool Recommendations version 0.3 - Courtesy of 802bikeguy.com

Must Have

2, 2.5, 3, 4*, 5*, 6*, 8, 10mm hex wrenches ([Park](#), [Pedros](#))

*Used on newer components like brake/shift levers, brake/derailer cable pinch bolts, brake calipers and pads, stems, seatpost and seatrail clamps, chainring bolts, etc. * = most common, *8mm = hex crank bolts, *10mm = freehub body remover*

8 thru 15mm metric wrenches (get a set with a ratcheting closed end, very useful) ([TEKTON](#))

Used on older components like brake/derailer cable pinch bolts, brake calipers and pads, quill stems, seatpost and seatrail clamps, axle nuts, etc.

14mm socket (crank nuts & bolts)

Flat + phillips screwdrivers

Most derailer limit screws and v-brake spring tensioner screws are flat/phillips.

Hammer(s): Flat/ball peen combo, deadblow, tapper, rubber mallet

Nice to have

Workstand ([Park](#))

Metric Socket Set ([Park](#))

Headset wrenches for threaded headsets ([Park](#), [Pedros](#))

Cassette and/or freewheel removal tool + chainwhip (Cassette: [Park](#), [Pedros](#) Freewheel: [Park](#), Chainwhip: [Park](#))

Cone wrenches (13 - 17mm at minimum) for overhauling hubs ([Park](#), [Pedros](#))

Pedal wrench (if your pedals don't have hex in the spindle) ([Park](#), [Pedros](#))

Crank puller (for 3 piece cranks) ([Park](#), [Pedros](#))

Bottom bracket tools suitable to your bottom bracket style

Cable + housing cutting tool ([Park](#), [Pedros](#))

Cable Puller ([Park](#), [Pedros](#))

Spoke wrench + truing skillz! ([Park](#))

Torque wrench ([Park](#), [Pedros](#))

Tape measure + calipers (digital preferred) ([Park](#))

Chainring bolt wrench ([Park](#))

Chain tool ([Park](#), [Pedros](#))

Adjustable wrench

Needle nose pliers

Wire snips (for zip ties, etc)

Expendables

Grease (I use [White Lightning Crystal](#), but even car wheel bearing grease works)

Medium lube ([Phil Wood Tenacious Oil](#) is my favorite)

Light lube ([Triflow](#) or similar)

[Liquid Wrench](#) (for stuck things)

Shift (compressionless) and Brake housing

Shift and brake cables

Road and mountain shifters use the same cable end. Mountain brake ends look like a little cylinder/puck, road brake ends look like a mushroom/acorn.

4 and 5mm housing end ferrules (I recommend Wheels Mfg machined ferrules)

Cable end crimps

Grade 25 or better bearings (lower number = higher quality, I do not recommend general grade 300 bearings)

Electrical tape (for securing housing & bar wrap to bars)

Zip Ties

Necessary for Cottered Cranks

Fucking persistence!

[Liquid Wrench](#)

A BFH (Big Fucking Hammer) and an 8mm centerpunch or a cotter pin press from bikesmithdesign.com

A fixed cup removal tool for stubborn bottom bracket fixed cups

Necessary for bike builds

Headset cup removal tool + press (Remover: [Park](#), Press: [Park](#))

Chain tool ([Park](#), [Pedros](#))

Torx wrenches + torque wrench for installing 6 bolt rotors ([Park Torx](#), Torque: [Park](#), [Pedros](#))

Necessary for fork replacements/swaps

Crown race removal tool ([Park](#))

Crown race setter ([Park](#))

Hammer

Nice to have for fork replacements/swaps

Hacksaw w/appropriate steer tube material blade

Steer tube cutting guide ([Park](#))

Star nut setter ([Park](#), [Pedros](#))

Nice for working on hubs

Bench vise

Axle clamp that goes in bench vise for holding wheels while working on hub cones / repacking ([Park](#))

Nice for refurbishing

Various cleaning products:

Fine steel wool or aluminum foil for removing rust from chrome, scotchbrite pads, ultrasonic cleaner filled with simple green, pipe brushes, brass and stainless steel brushes, degreaser, silicone bike polish, etc.

Necessary for crash damage repair

Derailleur alignment tool ([Park](#))

Dropout alignment tool ([Park](#))

Necessary for wheel builds

Mad skillz

Truing stand ([Park](#))

Spokes + nipples + spoke wrenches

Wheel dish gauge ([Park](#))

Spoke ruler ([Park](#))

Nice to have for wheel builds

Spoke Tensiometer ([Park](#))

Phil Wood Spoke cutter + threader

Necessary for carbon

Torque wrench ([Park](#), [Pedros](#))

[Carbon paste](#) (grease with micro particles that bite + grab mating carbon surfaces)

Nicer to have

Bottom bracket tap/chase & face tools ([Park Tool](#))

1" fork threading die ([Park](#))

Metric tap + die set ([Mibro](#) economy set)

Disc brake mount facing tool ([Park](#))

Disc rotor truing tool ([Park](#))

A note on which tools to buy. For a heavy use environment I definitely recommend either Pedros or Park Tool for the bike specific tools and Craftsman or Husky for generic tools.. For light use the Spin Doctor tools are OK, some are better than others, I have a few Spin Doctor tools in my kit. You can purchase the more generic tools at places like Northern Tool or Harbor Freight.