



RECOMMENDED TOOL LIST FOR FULL-SERVICE BICYCLE RETAILERS

Tools in the bicycle service department serve many purposes. Primarily, tools are obviously used to assemble new bikes and to service used bikes. A tool that saves time and effort is making you money. Tools and tool layout also can make an impression on potential customers, even if they are only purchasing a water bottle or some other accessory. When setting up a service area, take the time to consider how the customer would view the service area. Strive to make the service area be a part of the store that you and your employees are proud of showing off to the customer.

There are certain tools you may want to select simply to be known as the best service department around. Some tools may be used only once or twice a year. However, if a customer comes in for that particular repair, and your shop has the right tool and can fix their problem, you have a very satisfied customer. You purchased goodwill when you purchased the tool.

There is not necessarily a fixed set of “essential” tools for a bicycle shop. Each store will need to address the needs of the customer by selecting the appropriate combinations of tools. Keep in mind that servicing the customer is the goal. It is not necessary to have every tool listed for the opening day of a store. It will take time learn who your customers are, and what types of service they want.

No tool can be expected to last forever. Expect some tools to fully depreciate within one year. Tools will wear out with time and use. The design of the component part often limits tool service. For example, a cone on a hub has a very narrow surface for a wrench. The torque’s and loads placed on cones by some mechanics and/or manufacturers is so high that a wrench may begin to wear. Assign tool inspection to one person in your store. Heavily-used tools such as spoke wrenches, hex wrenches, and cone wrenches should be inspected the first of each month. Replace worn tools.

This list is written for a “full service” bicycle retailer, who will offer service to any potential customer, including complete overhauls of bicycle brands they do not carry. Typically, there will be someone employed in the role of service manager. The assumption is that the store has also made a commitment to stocking a full line of replacement parts.

It is likely that a professional bike shop will have several benches, but not every bench requires every possible tool. The list shows recommendations for a primary or “master” bench, as well as “secondary” benches, which are typically used for assembly work and some typical repairs and adjustments.

| ITEM | PARK TOOL # / DESCRIPTION | PRIMARY | SECONDARY |
|--|--|---------|-----------|
| WORKSPACE | | | |
| Work bench | Hardware/tool store | | |
| Tool board – white pegboard with hooks | Lumber supply – available in 4' x 8' sheets | | |
| Repair stands – one per bench. There are many options: | PRS-33.2 PRS-2.2-1 PRS-2.2-2 PRS-3.2-1 PRS-3.2-2 | | |
| Repair stand for bikes that cannot be clamped | PRS-22.2 | | |
| Work stool | STL-1.2 or STL-2.2 | | |
| Parts washer | Hardware/tool store | | |
| Vise | 4" jaws with rotating base | | |
| Axle vise jaws for vise | AV-1 and AV-5 | | |
| Wheel holder | WH-1 or WH-2 | | |
| Magnetic parts bowl | MB-1 | | |
| Bench grinder | 6" wheel with coarse and fine stones | | |
| Air compressor | Minimum 3.5 hp with 30 gallon tank – larger if running air tools | | |
| Air line, fitting, quick couplers, air gun | Hardware/tool store | | |
| Air chuck | INF-2 | | |
| Handlebar holder | HBH-2 or HBH-3 | | |
| GENERAL TOOLS | | | |
| Hex wrench set – P-handle set with holder 2, 2.5, 3, 4, 5, 6, 8, and 10 mm With ball end | PH-1.2 | | |
| Hex wrench set – T-handle set with holder 2, 2.5, 3, 4, 5, 6, 8, and 10 mm Straight end with sliding handles | THH-1 | | |
| Hex wrench set – L-shaped set 1.5, 2, 2.5, 3, 4, 5, 6, 8, and 10 mm | HXS-1.2 | | |

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| Hex wrench set – stubby set 1.5, 2, 2.5, 3, 4, 5, 6 mm | HXS-3 | | |
| Hex wrench – 3-Way – 4, 5, 6 mm | AWS-1 | | |
| Hex wrench – 3-Way – 2, 2.5, 3 mm | AWS-3 | | |
| Hex wrench – 3-Way – 4 mm, 5 mm, T25 | AWS-7 | | |
| Hex wrench – folding set | AWS-10 | | |
| Hex wrench – 11mm | HR-11 | | |
| Hex wrench – 12mm | HR-12 | | |
| Hex wrench – 14mm | HR-14 | | |
| Hex wrench – 15mm | HR-15 | | |
| Star-shaped wrench set – P-handle set with holder T6, T8, T10, T-15, T-20, T-25, T-30, T40 With ball end | PH-T1.2 | | |
| Star-shaped wrench set – T-handle set holder T6, T8, T10, T-15, T-20, T-25, T-30, T40 Straight end with sliding handles | THH-1 | | |
| 3/8" drive torque wrench 2–14 Newton meters | TW-5.2 | | |
| 3/8" drive torque wrench 10–60 Newton meters | TW-6.2 | | |
| 3/8" drive ratchet handle | SWR-8 | | |
| 3/8" drive socket set, including: 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 1" sockets 3, 4, 5, 6, 8, 10, 14, and 16mm hexes 5, 6, 8, 10, 11, 12, and 15mm long reach 24, 26, 27, 28, 30, 32mm flat sockets | SBS-3 | | |
| Torque Limiter – 4 to 6 Newton meters | ATD-1.2 | | |
| Metric calipers – digital or dial | DC-1 | | |
| Tape measure – metric and English | RR-12 | | |
| Thread pitch gauge | Hardware/tool store | | |
| 6" machinist ruler | Hardware/tool store | | |

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| Scribe | Hardware/tool store | | |
| Permanent marker | Hardware/tool store | | |
| Screwdrivers – Phillips #0 & #2 | SD-SET | | |
| Screwdrivers – 5/32" and 1/4" flat blades | | | |
| Screwdriver – JIS tip | DSD-2 | | |
| Combination wrenches – 6mm-17mm | MW-1.2 | | |
| 6" adjustable wrench | PAW-6 | | |
| 12" adjustable wrench | PAW-12 | | |
| Pliers – diagonal side cutters | SP-7 | | |
| Pliers – Long nose pliers | NP-6 | | |
| Pliers – 6" slip-joint pliers | Hardware/tool store | | |
| Snap ring pliers – set of five | RP-SET.2 | | |
| 3-way electronic shifting tool | EWS-1 | | |
| Hand drill – 3/8" chuck, reversible | Hardware/tool store | | |
| Drill bit set and index | Hardware/tool store | | |
| Center punch | Hardware/tool store | | |
| 10" round file ("rat tail") | Hardware/tool store | | |
| 10" flat bastard file | Hardware/tool store | | |
| 10" flat mill bastard file | Hardware/tool store | | |
| File handles | Hardware/tool store | | |
| 12" hacksaw with 24 TPI & 32 TPI blades | SAW-1 | | |
| Tapered hand reamer | Hardware/tool store | | |
| Tap Handle – smaller taps | TH-1 | | |
| Tap Handle – larger taps | TH-2 | | |
| Tap – M5 x 0.8 mm | TAP-8 | | |
| Tap – M6 x 1.0 mm | TAP-9 | | |
| Tap – M10 x 1.0 mm | TAP-10 | | |
| Tap – 9/16" x 20 TPI (pedals) | TAP-6 | | |

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| Tap – 1/2" x 20 TPI (pedals) | TAP-3 | | |
| Heli-coil brand thread repair kits in 10x1, 6x1, and 5x0.8mm | Tool store or other distributors | | |
| Hammer – double sided | HMR-4 | | |
| Punch set (including drift and chisel) | Hardware/tool store | | |
| Soldering gun (plus solder and flux) | Hardware/tool store | | |
| Scissors | SZR-1 | | |
| Knife | UK-1 | | |
| Pick set | UP-SET | | |
| Flashlight | Hardware/tool store | | |
| BOTTOM BRACKET | | | |
| Bottom bracket tap set (includes BSC threaded taps) | BTS-1 | | |
| Italian taps (36mm x 24 TPI) 2 required for tapping and facing | #693 | | |
| Bottom bracket tool – cartridge style | BBT-22 | | |
| Bottom bracket tool – cartridge style Campagnolo® Mirage, KHS, Thun & similar | BBT-4 | | |
| Bottom bracket/cassette lockring tool – Campagnolo® Record bottom bracket and Campagnolo® cassette lockring | BBT-5/FR-11 | | |
| Bottom bracket tool – hand wrench 16-notch 44–45 OD cup Fits Shimano® Hollowtech II, Race Face® X-type, SRAM®, Truvativ®, FSA®, others | BBT-9 | | |
| Adjusting cap tool – Shimano® Hollowtech II | BBT-10.2 | | |
| Tool for self-extracting/one-key release caps on SRAM® and RaceFace® cranks with a 16 mm hex hole | BBT-16 | | |
| Bottom bracket tool – 8-notch cups, i.e., Bontrager®, Shimano® XTR M950 BB, Tru- vativ®, eBike lockring for some Bosch® | BBT-18 | | |

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| Bottom bracket tool – socket type 16-notch 48–50 mm OD cup Fits FSA® MegaEvo® and more | BBT-27.2 | | |
| Bottom bracket tool – socket type 12-notch 48–50 mm OD cup or 36-notch 51–53 mm OD cup Fits Praxis® M30 and M35 | BBT-35 | | |
| Bottom bracket tool – socket type 12-notch 50–53 mm OD cup or 16-notch 52–54 mm OD cup Fits Enduro® T47, Enduro® PF30, Chris King® ThreadFit™ T47, Chris King® ThreadFit™ 30 | BBT-47 | | |
| Bottom bracket tool – socket type 12-notch 45–47 mm OD cup Fits BSA30 threaded adaptors | BBT-79 | | |
| Bottom bracket tool – socket type 16-notch 44–45 OD cup Fits Shimano® Hollowtech II, Race Face® X-type, SRAM®, Truvativ®, FSA®, others | BBT-69.2 | | |
| Bottom bracket tool – socket type 16-notch 41–42 mm OD cups Fits Shimano® Ultegra 6800 | BBT-59.2 | | |
| Bottom bracket tool – socket type 16-notch 39–40 mm OD cups Fits Shimano® XTR and Dura-Ace Shimano® STEPS® with square spindle | BBT-49.2 | | |
| Bottom bracket tool – hand wrench 16-notch cup bearings for Shimano® Di2 eleven speed and FSA® MegaEvo thread- ed external bearings | BBT-29 | | |
| Bottom bracket bearing press and extractor set | BBP-2 | | |
| 36mm fixed cup spanner – cup and cone adjustable bottom brackets, plus pin span- ner | HCW-4 | | |
| Lockring spanner – double-sided 1 notch and 3 notch type | HCW-5 | | |
| Adjustable cup pin spanners | SPA-1 | | |

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| Lockring tool – Bosch® Gen 2 | LRT-1 | | |
| Lockring tool – Shimano® STEPS® | LRT-2 | | |
| Lockring tool – single chainrings | LRT-3 | | |
| Lockring tool – Shimano® single chainring | LRT-4 | | |
| HEADSET | | | |
| Head tube facing/reaming handle set | HTR-1 (with 30.0mm reamer), or HTR-1B (with 33.8mm reamer) | | |
| Reamer extension for deep insert headsets | #769 | | |
| Reamer/Racer – Campagnolo® Hiddenset (integrated) | #761S | | |
| Reamer/Facer – IS headset (integrated) | #756S | | |
| Facer – ZS41 and PF30 shells | #690-XL | | |
| Facer – ZS56 headset | #690-XXL | | |
| Pilot for facing internal headsets, used with 690-XL | #768 | | |
| Fork column threading & chasing tool | FTS-1 | | |
| Crown race facing tool | CRC-1 | | |
| Crown race facing tool-oversized crowns | CRC-15 | | |
| Headset press | HHP-2 | | |
| 36/32mm lower race spanner (threaded headsets) | HCW-15 | | |
| Headset race removal tool 1" to 1 1/4" | RT-1 | | |
| Headset race removal tool – 1.5" to 2" | RT-2 | | |
| Fork race removal tool | CRP-2 | | |
| Fork race installer – 1" and 1-1/8" columns | CRS-1 | | |
| Fork race installer – 1.5" column | CRS-15.2 | | |
| Saw guide – threaded 1" fork | SG-1 | | |
| Saw guide – threadless fork | SG-6 | | |
| Saw guide – Oversized for seat posts, fork steerer tubes and other round tubes | SG-7.2 | | |

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| Saw guide – for carbon fiber-specific blades | SG-8 | | |
| Threadless star nut installer | TNS-4 | | |
| CHAIN & DRIVETRAIN | | | |
| Crank extractor – square spindle | CCP-22 or CWP-7 | | |
| Crank extractor – ISIS Drive & Shimano® Octalink type | CCP-44 or CWP-7 | | |
| Chain cleaning tool | CM-5.3 | | |
| Rear cluster cleaning brush | GSC-1 | | |
| Chainring sleeve nut wrench | CNW-2 | | |
| Chain tool – compatible with derailleur chain (including 13 speed), 1/8" and 3/16" | CT-3.3 | | |
| Master link pliers | MLP-1.2 | | |
| Chain wear measurement tool | CC-2 or CC-3.3 | | |
| Chain wear measurement tool – SRAM® Red AXS compatible | CC-4 | | |
| Pedal wrench | PW-4 | | |
| Pedal wrench crows foot | TWB-15 | | |
| Dummy pedal | DP-2 | | |
| Chain whip | SR-12.2 or SR-2.3 | | |
| Freewheel tool wrench handle | FRW-1 | | |
| Cassette lockring tool | FR-5.2G | | |
| Cassette lockring tool for 12mm thru axle hubs | FR-5.2GT | | |
| Freewheel removal tool – Shimano® splined type | FR-1.3 | | |
| Freewheel removal tool – Suntour® two-notch | FR-2 | | |
| Freewheel removal tool – Suntour® four-notch | FR-3 | | |

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| Freewheel removal tool – Atom® and Regina® splined type | FR-4 | | |
| Freewheel removal tool – Single speed BMX | FR-6 | | |
| Freewheel removal tool – Falcon® freewheels | FR-7 | | |
| Freewheel removal tool – Compact single speed | FR-8 | | |
| WHEEL, HUB & TIRE | | | |
| Wheel truing stand – main bench | TS-4.2 | | |
| Wheel truing stand – secondary benches | TS-2.2 | | |
| Wheel dish gauge | WAG-4 | | |
| Spoke wrenches | SW-0, SW-1, SW-2, SW-3, SW-40, SW-42 | | |
| Spoke wrench – Shimano® system wheels | SW-14.5 | | |
| Spoke wrench – Mavic® type, 7 splines | SW-12 | | |
| Spoke wrench – Mavic® type, 6 splines | SW-13 | | |
| Spoke wrench – internal nipples | SW-15 | | |
| Spoke wrench – Campagnolo® 5.5 & 6 mm nipples | SW-11 | | |
| Spoke length ruler | SBC-1 | | |
| Spoke tension meter | TM-1 | | |
| Cone wrench set – 13–24 mm, 26 and 28 mm | SCW-SET.3 | | |
| Hub bearing press | HBP-1 | | |
| Tire levers | TL-4.2 or TL-6.2 | | |
| Tire levers – steel, heavy duty | TL-5 | | |
| Tire seating pliers | PTS-1 | | |
| Valve core remover | VC-1 | | |
| BRAKES | | | |
| Fourth hand tool | BT-2 | | |

| ITEM | PARK TOOL # / DESCRIPTION | PRIMARY | SECONDARY |
|--|---|---------|-----------|
| Piston press for hydraulic brake calipers | PP-1.2 | | |
| Metric flare nut wrench – 8mm and 10mm | MWF-3 | | |
| Hydraulic Brake Bleed Kit – mineral | BKM-1 | | |
| Hydraulic Brake Bleed Kit – D.O.T. | BKD-1 | | |
| Hydraulic brake line cutter and barb installer | HBT-1 | | |
| Disc brake facing tool for post mount, flat mount and IS mount | DT-5.2 | | |
| DT-5.2 diamond abrasive cutter for carbon fiber mounts | 2197 | | |
| Disc rotor truing gauge | DT-3 | | |
| Disc rotor truing gauge dial indicator | DT-3i | | |
| Rotor Alignment and Truing Fork | DT-2 | | |
| Cable cutter | CN-10 | | |
| Offset brake wrench | OBW-3 | | |
| Thin open-ended wrenches | CBW-1 (8 and 10mm) CBW-4 (9 and 11mm) | | |
| FRAME | | | |
| Internal cable, housing and wire routing kit | IR-1.2 | | |
| Frame alignment gauge | FAG-2 | | |
| Bending tool, leverage assistance | FFS-2 | | |
| Dropout alignment tools | FFG-2 | | |
| Derailleur hanger alignment tool | DAG-3 | | |
| Kickstand removal tool | Bicycle supply distributors | | |
| Frame holder for alignment | Thread in old steel bb cups and mount bike in vise on cups | | |
| Suspension bearing extractor and installation kit | SBK-1 | | |
| Suspension shock fork and rear shock service tools | These tend to be very proprietary. Contact fork or shock manufacturer directly. | | |

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|--|-----------------------------|---------|-----------|
| CONSUMABLES | | | |
| Grease | PPL-1 (tube) or PPL-2 (tub) | | |
| High-performance grease for bearing applications | HPG-1 | | |
| Light lubricant for chains, etc. | CL-1 | | |
| Anti-seize compound for thread preparation | ASC-1 | | |
| Assembly compound | SAC-2 | | |
| Retaining compound | RC-1 | | |
| Cutting fluid for all machining | CF-2 | | |
| Thread locker compound | TLR-1 | | |
| Work apron | SA-3 or SA-1 | | |
| Nitrile gloves | MG-2 (S, M, L, XL) | | |