



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		

ITEM	PARK TOOL # / DESCRIPTION	PRIMARY	SECONDARY
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		

ITEM	PARK TOOL # / DESCRIPTION	PRIMARY	SECONDARY
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.		

ITEM	PARK TOOL # / DESCRIPTION	PRIMARY	SECONDARY
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)		