



## The Park Tool Difference

Quality, precision, innovation, reliability. These descriptive words used to mean something.

They meant your company built a product people could count on time after time to perform above and beyond expectations. Thoroughly researched design, carefully chosen materials and processes, and a company wide pride evident in every piece delivered to customers. Unfortunately, these words are overused today. It's easy to say you make a quality product but proving it is more difficult. After more than forty years of building bicycle tools for the bicycle industry and for enthusiasts worldwide, we feel we've earned the right to use these words. Building bicycle tools is our passion, our mission and we're proud of the results.

### What makes Park Tool different than other companies making tools for bicycles?

- Over forty years of tool building experience supplying factories, bike shops, racing teams, and enthusiasts worldwide
- An experienced engineering staff ensuring thorough product development and testing.
- An experienced production staff that builds tools for a living. Hands-on control of our own product.
- Access and use of the latest and greatest manufacturing technology available.

### - Eric Hawkins

The rest of the story... We believe our business has been successful because of our faith in God. Man is constantly looking for success and trying to acquire wealth, but is always striving for something more. He will never be satisfied until settling the most important of all questions in life, his relationship with God. That relationship is possible through belief in His Son, Jesus Christ.

## Park Shop Service and Supply

Park Shop Service and Supply is a dealer-direct division of Park Tool, offering a full range of shop supplies for the professional bicycle dealer and mechanic. Park Shop Service and Supply features:

- Dickies and Red Kap brand professional work clothes, custom embroidered with your shop's logo
- Equipto brand industrial quality work benches, parts drawers, storage cabinets, and mezzanines in custom colors and specifications
- Aqueous parts washers and biodegradable cleaning solutions
- Park Tool School instructional materials
- The Park Tool TS-3 Master Wheel Truing Stand
- Disposable nitrile mechanic's gloves and more

View the full Park Shop Service and Supply line at [www.parktool.com](http://www.parktool.com) or request a catalog by calling 888-568-4959



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## LEGEND



Tech Note

**Technical Notes:**  
Look for the "Tech Note" box for important technical information



Repair Help

**Tech Tips Online:**  
Look for the "Repair Help" button and a web address for more information in the repair help section of our web site

## Park Tool Limited Lifetime Warranty

Park Tool Company backs its tools with a limited lifetime warranty. If a Park Tool product fails to perform its intended purpose, under normal usage, due to defects in material or workmanship, the tool will be repaired or replaced at our option. Tools that are worn from normal use, or damaged due to accident, abuse, neglect, or modification are not covered by the warranty. When possible, tools not covered under warranty will be repaired for a reasonable charge. This warranty does not cover consequential damage or cost of injury incurred by the user. The TW-3 and TW-4 Torque Wrenches are warranted for one year from date of purchase. Tools for warranty consideration should be returned to the point of purchase or to Park Tool Company.

## The Big Blue Book of Bike Repair: A Do-It-Yourself Bicycle Repair Guide From Park Tool

A new book on bike repair from the company that wrote the book on bike repair products. Calvin Jones, Education Director at Park Tool, provides easy-to-follow, step-by-step instructions for keeping any road or mountain bike running smoothly. From tire repair and derailleur adjustment to wheel truing and bottom bracket replacement, The Big Blue Book of Bike Repair provides both the novice and veteran mechanic with the information needed to perform nearly any repair. Special topics such as tool selection, bike cleaning, and on-the-trail repairs are also covered, and an appendix at the back of the book provides valuable reference materials. Up to date with the latest technology, The Big Blue Book of Bike Repair is packed with hundreds of photos, as well as repair tips garnered from the author's 30 years as an educator and mechanic.



## Go to School with Park Tool

The Park Tool School is a pre-packaged program and curriculum designed to assist the retailer in running bike repair clinics. The Park Tool School contains a detailed Store/Instructor's Manual to guide planning the curriculum and promoting the clinic for the store. The corresponding Student Manual provides information on basic mechanical skills, as well as detailed instructions for repairing and maintaining wheels, bearing assemblies, braking and shifting systems, etc. – everything the student needs to know to keep their bicycle rolling smoothly and safely. The Student Manual acts as the course outline and is supported by instructor demonstrations and hands-on work by students. After the clinic is done, students keep their manual as a reference of what was covered in the course. Retailers purchasing the program will be posted to the Park Tool web site at: [www.parktool.com](http://www.parktool.com) where customers can access a list of participating dealers.



## Explain This, Pierre:



Park Tool's Head of Engineering Pierre Ostor

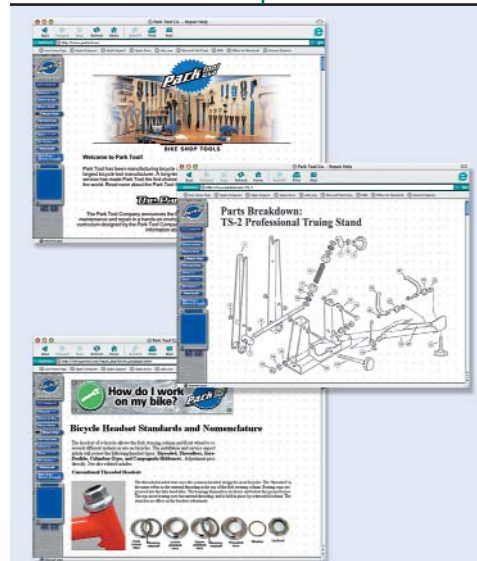
### Heat Treat. What is it? Why is it important? Are there different ways to heat treat parts?

We use the Heat Treatment process to produce a harder, more durable part, and we most commonly use it for steel. As there are many different types of steel, there are many different ways to heat treat parts. Furnace temperature, furnace time, material composition, material thickness and desired hardness are all variables in the process. Mastering this process takes years of experience and its implementation determines the durability and strength of a product. Because we're making hand tools and these tools are used day in and day out, we have to make sure each part is manufactured and hardened perfectly every time. If you've ever had premature wear or long term fit problems with an inexpensive, poorly made tool, you already know the importance of proper heat treatment.

The two most common methods of Heat Treatment we use are:

- **Through Hardening:** This is the method we use most often to produce a specific hardness throughout a part or tool. This process is done to increase the part's strength, ensure longevity in high stress applications and resist penetration. Tools using the Through Hardening process include: hex wrenches, cone wrenches, headset wrenches, cutting tools, chain tools, steel tire levers, crank pullers, taps and any other high torque tools or parts that are used repetitively. We test the accuracy of Through Hardening by using a machine which gives a rating scale, commonly referred to as a Rockwell Scale. (shown left) This scale helps us determine if the part is heat treated to the correct hardness and the correct depth. If the part is too soft the part will distort or wear prematurely. If the part is too hard it becomes brittle and can break easily. We make sure to take the extra time to test production run hardness on a regular basis to ensure the part is being produced as it was engineered.
- **Case Hardening:** We use this process to create a hard external surface to a specified depth. Used mostly in high friction or high wear applications, or when through hardening isn't possible because of the material or because it would make the part too brittle for the application.

## Park Tool Web Site



Considered by many shop and home mechanics as one of the most useful web sites in the bike industry, the Park Tool Web Site features:

- Descriptions and photos of our complete line of over 250 bicycle specialty tools
- Detailed instructions for almost any repair or maintenance task
- "Bike Map" Tool Locator for helping select the right tool for the job
- Recommended tool lists for professional and home mechanics
- Downloadable tool instruction sheets
- Exploded view drawings for most Park Tool products
- Virtual factory tour
- Park Tool retailer locator
- Technical support e-mail
- On-line store for purchasing shirts, hats, mugs, and other logo merchandise

e-mail: [info@parktool.com](mailto:info@parktool.com)

[www.parktool.com](http://www.parktool.com)





## Intro to Repair Stands

Investing in a high quality repair stand is the first step toward building a high quality workstation. Over the past 40 years we've built hundreds of thousands of repair stands for home mechanics, shop mechanics, and professional race mechanics all over the world. Many of the PRS-1 stands we built in the 1960's are still in use daily, and we're constantly striving to improve and update our newest generation of stands. Each of our models offer different features and

quality levels to ensure a model for nearly every purpose. All of our stands are made to allow full rotation to ensure a comfortable working position at all times. We also offer a complete line of replacement parts to keep your investment running smoothly. Ask any professional mechanic about their stand and you're bound to hear "Park Tool" as the response. Insist on the quality and innovation of genuine Park Tool repair stands. Designed and built to last for years of use.

### PRS-15 Professional Race Stand

The PRS-15 is designed to be the finest folding repair stand made. Manufactured from the best materials to provide years of reliable service, the PRS-15 is lightweight, portable, and fully adjustable. The PRS-15 works with any bike and can be quickly turned into a complete mobile workstation by adding the optional Truing Stand, Bucket/Tool Kilt, and Paper Towel Holder accessories. Ideal for anyone wanting a premium quality repair stand that can be used in the workshop or packed and used at a race or event.

- Five-point leg system adjusts to create a super stable base on smooth or rough surfaces
- Shop quality 100-15X Extreme Range Clamp quickly adjusts to fit tubes from 7/8" to 3" (24mm to 76mm)
- Fully adjustable clamping pressure prevents damage to thin-walled tubes
- Clamp rotates 360 degrees for easy access to any part of bike
- Narrow jaws allow clamping in tight access areas
- Clamping height quickly adjusts from 40" to 60" (102cm to 152cm)
- Oversized aluminum upright tube is elliptically-shaped and heat-treated to resist flexing
- Quickly folds to 44" (112cm) for portability and storage
- Replaceable jaw covers (part #1259)
- Weighs just 22 lbs



Clamping height quickly adjusts from 44 to 60 inches 102cm to 152cm



PRS-15 folded



NEW

### BAG-15 Travel and Storage Bag

Heavyweight nylon bag with shoulder strap for transporting and storing the PRS-15 Race Stand.



NEW

\*Tools not included

### BTK-1 Bucket and Tool Kilt

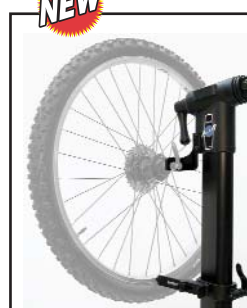
The innovative BTK-1 is a bucket-mounted tool organizing system designed especially for the PRS-15. The Tool Kilt's 40 assorted pockets keep tools organized and within easy reach, while the bucket can be used to store supplies or filled with water for cleaning. The bucket lid serves as a handy parts tray. When the repairs are completed, the Tool Kilt, tools, and accessories can be stowed and transported in the bucket. Just pick up the handle and go! The Tool Kilt is made from heavy nylon, with reinforced stitching for extra strength. The specially sized 5.3 gallon bucket is built from super strong high-density polyethylene for years of service.



NEW

### PTH-1 Paper Towel Holder

Paper towels are always handy for cleaning hands and parts. Keep them within reach with the PTH-1. Fits onto PRS-15 to hold a standard roll of paper towels. Also works great for hanging clothing, wheels, tires, etc.



NEW

### TS-15 Truing Stand Attachment

The TS-15 attaches onto the PRS-15 Professional Race Stand for accurate truing of wheels up to 29". Simple, lightweight, and compact. Wheel dishing (centering) is performed by simply flipping the wheel in the TS-15.



NEW

\*Stand not included

### PRS-15AP Accessory Pack for PRS-15

Turns the PRS-15 into a complete professional workstation. Includes BTK-1 Bucket and Tool Kilt, TS-15 Truing Stand, PTH-1 Paper Towel Holder, and BAG-15 Travel and Storage Bag.\*

Clamping height  
adjusts from  
39 to 57 inches  
99cm to 145cm



### PCS-9 Home Mechanic Repair Stand

Park Tool quality in an entry level repair stand for the home mechanic

- Three-point leg system creates stable base
- Height adjusts from 39" to 57" (99cm to 145cm)
- Screw type clamp adjusts to fit tubes from 7/8" to 3" (24mm to 76mm)
- Clamp rotates 360 degrees for easy access to any part of bike
- Adjustable clamping pressure prevents damage to thin-walled tubes
- Folds to 41" (104cm) for portability and storage
- Replaceable jaw covers (part #1185K)
- Made from powder coated steel tubing

Clamping height quickly  
adjusts from  
53 to 67 inches  
134cm to 170cm



Just lift and the PCS-1 folds.

### PCS-1 Home Mechanic Repair Stand

Incorporating many of the same features as our shop repair stands, the durable and dependable PCS-1 is a high quality stand designed specifically for the home mechanic. Our most popular repair stand year after year.

- Clamping height quickly adjusts from 53" to 67" (134cm to 170cm)
- Quick-adjusting spring clamp fits tubes up to 1-5/8" (41 mm)
- Clamp rotates 360 degrees for easy access to any part of bike
- Folds flat for easy storage
- Constructed of powder coated steel tubing for years of use
- Rubber feet are adjustable for uneven floors
- Replaceable jaw covers (#468G)

Clamping height quickly  
adjusts from  
53 to 67 inches  
134cm to 170cm



### PCS-4 Deluxe Home Mechanic Repair Stand

The PCS-4 has all the features of the PCS-1, but adds our Adjustable Linkage Clamp (the same clamp used in our heavy duty shop stands) and a new leg stabilizing system that creates a rock-solid base to resist tipping. Perfect for heavier duty home use or light duty shop use.

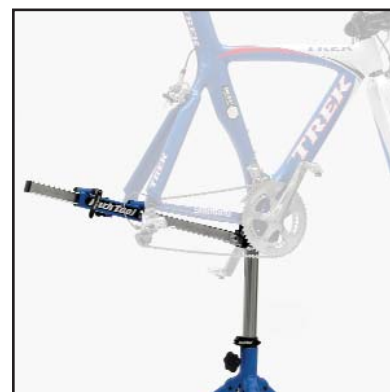
### PRS-20 Team Race Stand

The new PRS-20 Team Race Stand is a compact, Euro-style work stand that securely holds the bike without clamping the frame tubes or seat post. Ideal for bikes with ultra lightweight frame tubes and seatposts, and for bikes with tight access areas that can't be clamped. Originally designed for the mechanics of the Tour de France-winning US Postal Service Pro Cycling Team, the PRS-20 is now available to professional and home mechanics everywhere.

- Quick release mounts hold bike securely by the front or rear dropouts
- Vinyl-covered cradle and quick release retention strap stabilize bottom bracket
- 360 degree horizontal rotation allows easy access to both sides of bike
- Folds to 33" (84cm) for easy transport and storage
- Stable tripod base
- Built-in "sleeping hub" allows easy chain cleaning with rear wheel removed
- Bottom bracket height quickly adjusts from 28" to 38" (71cm to 96cm)
- Durable blue powder coat finish. High wear parts are chrome plated



**NEW**



PRS-20 mounted to rear dropouts



PRS-20 folded



## TS-5 Wheel Truing Stand Attachment

The TS-5 turns any PRS-5, PCS-1, or PCS-4 made after 6/96 into a convenient wheel truing stand. Easy to install and light in weight, the compact TS-5 allows accurate truing of 16" to 29" wheels. Wheel dishing (centering the rim between the hub's lock-nuts) is performed by flipping the wheel in the stand, or, by using the TS-5 with a WAG-3 or WAG-4 Wheel Dishing Tool (not included). Perfect for the race or home mechanic.



## PCS-EXT Extension for PCS-1 Repair Stand Kit

The PCS-EXT adds up to 21 inches of fully adjustable working height to the PCS-1 Home Mechanic Repair Stand. Positions bike at a comfortable working height—even when clamping on the seatpost. Quick release collar allows the height to be changed in seconds. Works on all PCS-1 Repair Stands using a composite top tube assembly. The PCS-EXT is included with all current PCS-1 Repair Stands.

## PRS-2 OS Deluxe Double Arm Repair Stand

The standard for the past 30 years. Outstanding stability and a working height range of 50" to 62" (127-158cm)—high enough and stable enough to position the bike at a comfortable working height even when clamping on the seat post. The clamps rotate 360 degrees, allowing the bicycle to be positioned at any angle, and can be adjusted for frame tubes up to 1-5/8". Because the stand itself also rotates horizontally 360 degrees, one bicycle can be swung out of the way, allowing the other clamp to be used for "rush" repair jobs. The entire framework is heavily chrome plated and the steel base is painted. The stand is also available without the base.

## PRS-3 OS Deluxe Single Arm Repair Stand

This stand is one-half of the Park Tool Deluxe Double Arm Repair Stand (PRS-2 OS), and incorporates most of the same features in a stand suitable for smaller areas. The clamp rotates 360 degrees and is adjustable for virtually any size frame tubing up to 1-5/8". Clamp height is adjustable from 50" to 62" (127-158cm). Uses larger diameter tubing and a 65 pound base to ensure a rigid working station. The PRS-3 OS is heavily chrome plated and is also available without the base.



## FP-2 Floor Plate

Permanently and securely attach your Park Tool Repair Stand to the floor of your shop with our Floor Mounting Plate. Made with an 8" square of steel, it attaches to stand with four bolts, which are included.

## Tech Note

*Clamping Tip: The clamps used on the PRS-2 OS, PRS-3 OS, PRS-4 OS and PRS-4W may be removed from the stand, and then clamped to the bike. Lift the bike and clamp together and insert into the stand.*





### PR-4W Deluxe Wall Mount Repair Stand

Designed to be easily mounted to any post or wall stud, the PR-4W is a shop quality stand using the same clamp and locking system as the PR-2 OS, PR-3 OS, and PR-4 OS. Powder coat finish. (Mounting bolts not included).

### PCS-2 Home Mechanic Bench Mount Repair Stand

This is the bench mount version of our popular Home Mechanic Repair Stand (PCS-1). It incorporates the same adjustable clamp and will rotate the bicycle 360 degrees, holding it steady at any angle. Durable powder coating. Mounts to any flat surface. (Mounting bolts not included).



### PR-7 Bench Mount Repair Stand

Easily mounted on any workbench. Uses the same adjustable linkage clamp and locking system as the PCS-4. Mounting flange has four holes, allowing use of bolts or lag bolts to mount. Durable powder coated finish. (Mounting bolts not included).



### PR-4 OS Deluxe Bench Mount Repair Stand

The Deluxe Bench Mount Stand uses the same clamp as the PR-2 OS, PR-3 OS, PR-4W. The clamp rotates 360 degrees, allowing the bike to be positioned at any angle. Mounts easily to any flat surface. (Mounting bolts not included).

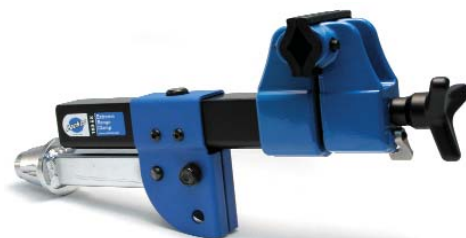


### 100-4X Extreme Range Clamp

Our most versatile clamp, the new 100-4X fits our heavy duty shop stands and works on nearly any bike, no matter what the size or shape of the frame tube.

- Clamps oversized, square, rectangular, and even aero shaped tubes
- Quickly adjusts from 7/8" to 4"
- Pivots 90 degrees to clamp either top and bottom or left and right sides of tube
- Adjustable clamping pressure prevents damage to thin-walled tubes
- Narrow jaws for clamping in tight access areas
- Replaceable jaw covers (part #1259)

- Fits any PRS-2, PRS-20S, PRS-3, PRS-30S, PRS-4, PRS-40S, PRS-4W, PRS-11, or PRS-12 Repair Stand



### 100-6X Extreme Range Clamp

Similar to 100-4X to fit PRS-5, PRS-7, PCS-4 with composite top tube, PCS-1 and PCS-2 made after 12/2001.



### 100-15X Extreme Range Clamp

Replacement Clamp for PRS-15 repair stand.

### Tech Note

*Because of the tremendous clamping pressure potential, a good rule of thumb when adjusting the 100-3C or 100-5C clamp is to adjust the clamp so it's possible to close it with the force of two fingers. This prevents damage to frames regardless of frame material.*

## Replacement Clamps

Replacement clamps fit frame tubes from 1" to 1-5/8" (25 to 41mm), allow for cable routing on the top tube, and feature replaceable jaw covers. 100-8C fits 15/16" to 1 1/4" (24mm to 33mm).



**100-5C** Adjustable Linkage Clamp fits PCS-4, PRS-5, PRS-6, and PRS-7 stands made after 6/96.



**100-8C** Spring Linkage Clamp fits PRS-6, PRS-7, and PRS-8 stands made before 6/96.



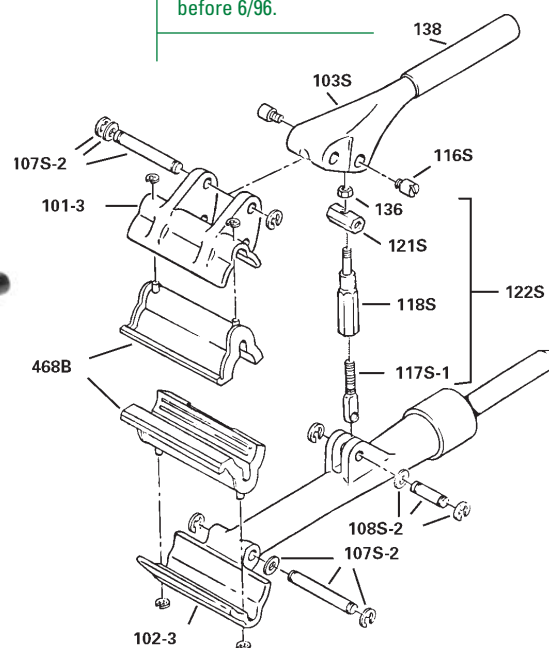
**100-1C** Spring Linkage Clamp fits PCS-1 and PCS-2 stands made after 6/96.



**100-2C** Spring Linkage Clamp fits PCS-1 and PCS-2 stands made before 6/96.



**100-3C** Adjustable Linkage Clamp fits PRS-2, PRS-2 OS, PRS-3, PRS-3 OS, PRS-4, PRS-4W and PRS-4 OS stands. Fits PRS-5 stands made before 6/96.



## Replacement Clamp Covers

Available in eight models to fit all Park Tool Repair Stand clamps.

- **468G:** Fits PCS-1 and PCS-2 with double cable reliefs.
- **468B:** Fits PRS-2 through PRS-8 and PCS-4 with double cable reliefs.
- **467B:** Fits PRS-2 through PRS-8 with single cable relief.
- **467G:** Fits PCS-1 and PCS-2 with single cable relief.
- **466:** Fits original clamps with plastic-dipped jaws. Old plastic should be removed before installing new covers.
- **1002:** Fits 100-3X and 100-5X clamp
- **1259:** Fits PRS-15, 100-4X, 100-6X and 100-15X clamps
- **1185K:** Fits PCS-9

## Replacement Parts for Clamp 100-3C

138	Handle
117S-1	Eyebolt
103S	Handle
107S-2	Pin w/washers and circlips
118S	Adjusting barrel
101-3	Moveable jaw
121S	Adjusting barrel pivot
468B	Clamp cover set w/circlips
136	Nut, 1/4-28
102-3	Rotating shaft
116S	Cap screw
108S-2	Pin w/washers and circlips
122S	Linkage complete

## PRS-CRK Repair Kit for 100-3C Clamp

Includes (1) 122S, (2) 116S, (1) 108S-2, (2) 107S-2.

## Tech Note

Park Tool makes two basic types of clamps: fully adjustable and spring linkage. The 100-3C, 100-5C, 100-4X, 100-6X and 100-15X Adjustable Clamps allow infinite adjustment of clamping pressure. There are some situations where the bike should be very firmly clamped, and others where very light pressure is needed, and these clamps allow this adjustment. In comparison, the 100-1C and 100-8C Spring Linkage Clamps rely on constant spring pressure. While fine adjustment of the pressure being applied to a tube is not possible, the spring linkage clamps are very simple and easy to use.





### 104 Work Tray

This large tray is ideal for holding small parts and tools. It features deep sides so small items stay put. A variety of slots and holes hold any tool. Fits PCS-1, PCS-4, PCS-9, PRS-2, PRS-3, PRS-6, PRS-11 and PRS-12.



### 105 Cast Aluminum Tool Tray

The 105 is a handy and sturdy cast aluminum tray with deep-walled compartments and assorted slots for holding tools, lubes, and small parts. Fits all PRS-2, PRS-2 OS, PRS-3, PRS-3 OS, and PRS-13 Shop Stands, as well as PRS-6, PCS-1, and PCS-4 Repair Stands manufactured after 6/96.



### TK-2 Tool Kaddy

This handy unit is perfect for storing frequently used tools right at your fingertips. The Tool Kaddy rotates to bring needed items up close, features deep pockets, and includes 12 hooks. The TK-2 mounts easily using the included mounting hardware on Park Tool Repair Stands PRS-2, 3, 4, 11, 12 and 13, including OS models.



### ISC-1 Internal Seat Tube Clamp

Clamping directly onto frames made from carbon fiber and other ultra-thin materials can cause inadvertent frame damage. The ISC-1 is designed to allow you to hold frames securely without clamping onto a tube and to raise the bike to a more comfortable working height. To use, insert the ISC-1 into the seat tube, turn the knob to expand the tool, and then clamp into any Park Tool Repair Stand. Fits frames with seat tube diameters 25mm to 27.4mm.



### HBH-1 Handlebar Holder

The Handlebar Holder is designed to hold the handlebars stationary, keeping the front wheel from "flopping" while the bike is worked on. It will hold the handlebar securely when the bicycle is rotated to any position in your Park Tool Repair Stand. Works on virtually all mountain and road bikes. Velcro® strap is included to attach the Handlebar Holder to the frame.



### #450 Machine Thread (5/16"-18) Storage Hook

### #451 Wood Thread Storage Hook

Park Tool Storage Hooks are perfect for hanging bikes, wheels, etc. Made from 5/16" steel rod. Vinyl coated to prevent scratching.



## TS-3 Master Truing Stand

When only the best equipment will do, look no further than the TS-3 Truing Stand. Built to exacting specifications using the highest quality materials available, this stand delivers an unprecedented level of accuracy. You now can quantify the trueness of a wheel using the optional factory dial indicator package.

Designed from the ground up to be the new standard in truing stands, the TS-3 Truing Stand gives you all of these important features to assure you of absolute precision and accuracy.

1. The TS-3 Truing Stand will center (dish) a wheel, relative to the faces of the hub locknut, to within 0.25mm (0.01 inch).
2. The linear motion of the upright arms ensures superior alignment.
3. Optional dial indicators provide quantified measurement of radial and lateral run out allowing exact specifications to be maintained, and allowing strict adherence to shop and industry standards.
4. The angle of the TS-3 Truing Stand can be adjusted so it can be used comfortably by mechanics of different heights.
5. Precision ground parts and precise bearings ensure long-lasting, smooth operation.
6. The caliper arm moves quickly and easily saving time when mounting the wheel. The arm stores out of the way to prevent damage to the arm.

### TS-3 Stand only

**1554-1** Centering Gauge for TS-2 and TS-3 (included with TS-3)

**1555-1** Dial Indicator Set with brackets

**1556-1** Dial Indicator Bracket Set only (no dials)

In the U.S. the TS-3 and accessories are available only from:

**Park Shop Service & Supply**  
**888-568-4959**



(TS-3 shown with 1555-1 Dial Indicator Set.)



## TS-5

## Wheel Truing Stand Attachment

The TS-5 turns any PRS-5, PCS-1, or PCS-4 made after 6/96 into a convenient wheel truing stand. Easy to install and light in weight, the compact TS-5 allows accurate truing of 16" to 29" wheels. Wheel dishing (centering the rim between the hub's locknuts) is performed by flipping the wheel in the stand, or, by using the TS-5 with a WAG-3 or WAG-4 Wheel Dishing Tool (not included). Perfect for the race or home mechanic.



## TS-2 Professional Wheel Truing Stand

The Park Tool Professional Truing Stand is the stand to choose for heavy shop use. Accepts wheels from 16" to 27" with or without tire removed. Both axle-holding uprights move simultaneously, always centering wheel. Calipers and caliper arm are spring-loaded to prevent jamming with badly out-of-true wheels. Made of heavy chrome plated steel with nylon bushings at pivot points. Can be bench-mounted or vise-held. The standard of the industry. If a forward or backward tilt is desired, use with Truing Stand Tilting Base (TSB-2). For precision work, the TS-2 should be used with a dishing gauge.



## TSB-2 Truing Stand Tilting Base

We've designed the Tilting Base specifically for use with our Park Tool TS-2 Professional Wheel Truing Stand. It allows for adjustment of the truing stand 20 degrees forward or backward for comfortable use at any bench height. The handy bins in the front of the Tilting Base are specially designed to hold Park Tool Spoke Wrenches and other small items such as spoke nipples. The bin corners are rounded to make even the smallest part easy to retrieve. Reinforced black nylon body will stand up to heavy use. Holes are provided for mounting to workbench or other surfaces for greater stability.



**NEW**



## TS-2EXT Truing Stand Upright Extensions

TS-2EXT Truing Stand Upright Extensions install in seconds on any TS-2 Truing Stand, allowing the stand to be used on wheels with hubs up to 160mm wide (tandem and downhill bikes), as well as on 700C wheels with a 29" mountain bike tire installed. In addition, specially sized bosses on the TS-2EXT serve as adaptors so the TS-2 Truing Stand can be used with wheels using 20mm through axle hubs.



**Repair Help**

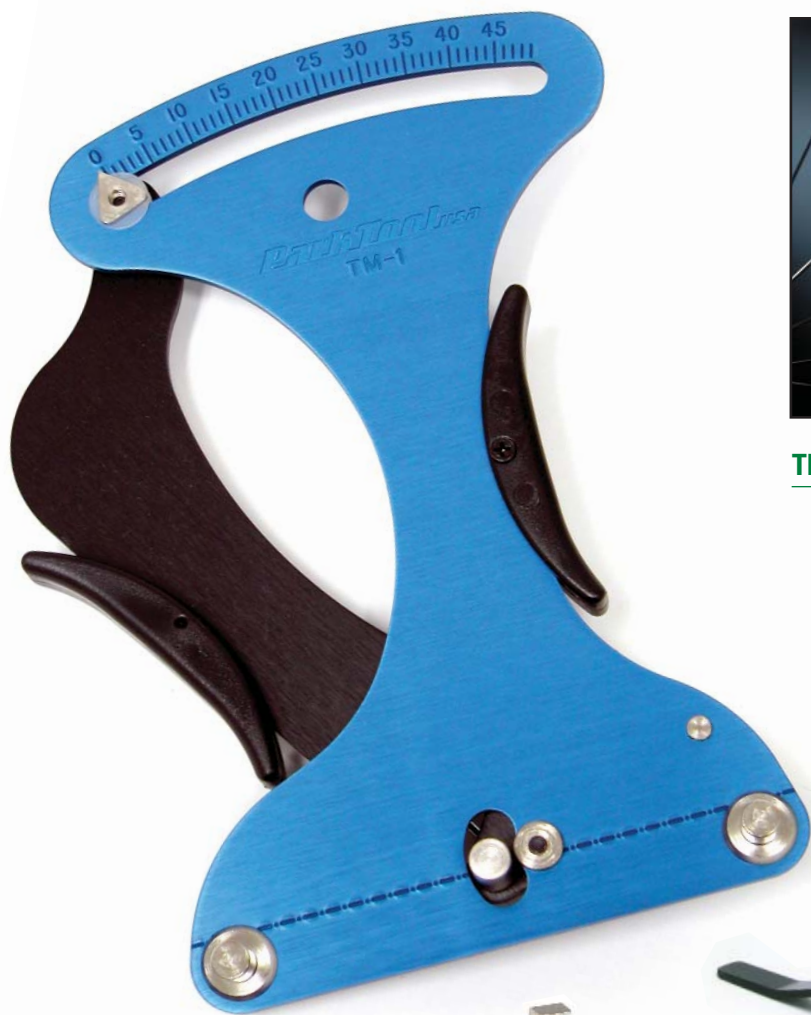
TS-2 adjustments: [www.parktool.com/repair\\_help/ts2.shtml](http://www.parktool.com/repair_help/ts2.shtml)



## TS-8 Home Mechanic Wheel Truing Stand

Designed especially for the home mechanic, the TS-8 allows accurate wheel truing at an economical price. Accepts wheels from 16" to 29", with or without the tire mounted. Innovative sliding dropout allows quick wheel installation, no matter what the hub width (up to 170mm). Dishing (centering) is performed by simply flipping the wheel in the stand. Constructed from heavy gauge steel to resist flexing, the TS-8 can be used freestanding or bolted to a bench for extra stability.





### TM-1 Spoke Tension Meter

The key to wheels that are strong and reliable is having spokes that are properly and uniformly tensioned. The TM-1 Tension Meter accurately and reliably measures the absolute tension of each of the spokes in a wheel, as well as the relative tension between all the spokes in a wheel. Easy to use and priced affordably, the TM-1 works on nearly any bicycle spoke—no matter what the diameter, material, or shape. Not just for the experienced mechanic, the TM-1 is for anyone building or truing wheels, diagnosing wheel problems, or assembling new bikes. It's a tool that belongs on every workbench.



#### Tech Note

TM-1 use: [http://www.parktool.com/repairhelp/tm\\_1.shtml](http://www.parktool.com/repairhelp/tm_1.shtml)



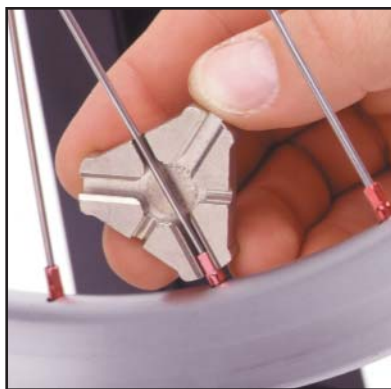
### WAG-4 Wheel Alignment Gauge

For a wheel to perform properly, it is important for the rim to be centered between the locknuts of the hub, or "dished". To check this, and to make precision adjustments, a wheel alignment gauge (also called a "dishing tool") is a must. The WAG-4 allows easy checking of the dish on road, mountain, or BMX wheels from 16" to 29". It works with any hub width and its innovative design even allows it to be accurately used with the tire still on the wheel. An accurate and truly versatile wheel alignment gauge that belongs along side every truing stand.



### WAG-3 Portable Wheel Dishing Gauge

The WAG-3 accurately checks the dish, or offset, on all 26", 27", and 700C wheels. Measurements are taken comparing one side of the wheel to the other to determine if the rim is in the center of the hub. Easily disassembles to fit into most tool boxes. Perfect for the race or home mechanic.



### SW-7 Triple Spoke Wrench

The precision sized SW-7 fits the three most popular spoke nipple sizes on the market. Sizes equal to SW-0, 1, 2. The SW-7 is nickel plated for years of service. Designed for the home mechanic.

**Packaged carded: SW-7C**

### SBC-1 Spoke, Bearing, and Cotter Gauge

This handy shop aid is ideal for sizing spokes, ball bearings and crank cotters. To use, just hang the head of the spoke in the oblong hole and read its length on the scale. For crank cotters and ball bearings it works just like a gauge for drill bits. Spoke lengths are in both metric and fractional markings. Made of anodized aluminum with embossed markings to allow easy reading and long life.



### SW-10 Adjustable Spoke Wrench

The SW-10 Adjustable Spoke Wrench helps remove tight (stubborn) or rounded nipples. Hardened, nickel plated investment casting gives superior strength and durability. Fits any of the 80 gauge sizes listed for SW-0 through SW-2.



### PTS-1 Tire Seater

This tool is designed to quickly and easily "seat" stubborn tires. During inflation, tire beads often slip below the rim edge and are difficult to pull out. Simply place the non-slip jaws on the tire and lift out. The Park Tool Tire Seater adjusts to various tire widths. It's chrome plated and the handles are vinyl coated for comfort.

### Spoke Wrenches SW-0 through SW-3

Professional quality, precision-sized spoke wrenches are hardened and nickel plated for long service. Park Tool Spoke Wrenches are vinyl coated in one of four colors indicating the size at a glance. Park Tool Spoke Wrenches are marked "Park Tool USA."

SW-0 (Black) 80 ga./.127" nipple/3.23mm  
SW-1 (Green) 80 ga./.130" nipple/3.30mm  
SW-2 (Red) 80 ga./.136" nipple/3.45mm  
SW-3 (Blue) 105 ga./.156" nipple/3.96mm

**Packaged carded: SW-0C through SW-2C**

### BEWARE OF POOR FITTING IMITATIONS!





## TL-5 Heavy Duty Steel Tire Lever Set

The TL-5 Heavy Duty Tire Lever Set is designed for use on the toughest tire and rim combinations. Made of forged steel, these beefy levers are a full 8" (20.3 cm) long for superior leverage. Specially designed tip engages tire bead so it can be removed with just two levers. Ideal for difficult to remove downhill and freestyle tires. Set of two.

**Packaged carded: TL-5C**



## TR-1 Tire and Tube Repair Kit

Our popular GP-2 Super Patch Kit and TL-1 Tire Levers packaged together as a kit. Three Tire Levers and a box with six patches and one piece of sandpaper on a blister card.

**Packaged carded: TR-1C**



## TL-1 Tire Lever Set

Sold in sets of three, Park Tool Tire Levers are made of nylon to ensure long life and damage-free operation. The unique design of the TL-1 actually lifts the tire away from the rim and keeps the tube from being pinched. These blue levers are available carded (TL-1C), or in a 25-set counter display.

**Packaged carded: TL-1C**  
**Display box: TL-1**



## TL-10 Shop Tire Tool

Install and remove! The heavy duty TL-10 Shop Tire Tool quickly and easily removes almost any bicycle tire (20" and larger) from the rim and then mounts the tire with the same ease. The TL-10 simply hooks under the tire bead and then rotates around the rim to completely dismount the tire. To mount the tire, attach the installation portion of the tool and again just rotate around the rim. Save time with each tire repair you perform. Not a take-along tire lever, the TL-10 is a heavy-duty tire tool designed for use in the shop.

## TL-2 Tire Lever Set

Why a second tire lever? Because feedback from mechanics tells us that, like pizza, some like their tire levers thick and some like them thin. The TL-2 is thinner and wider than the TL-1 and, therefore, it works differently. The TL-2 has more engagement with the bead of the tire so it can be "popped" off using just two levers. The TL-2 Tire Levers are very compact and lightweight, and because you only need two, they're perfect for stashing in a jersey pocket or in the tight confines of a seat pack. Packaged in sets of two levers, carded.

**Packaged carded: TL-2C**





### PFP-3 Home Mechanic Floor Pump

The PFP-3 is a high performance, feature-packed pump at a great price. Perfect for the home mechanic.

- Smooth operating steel barrel
- Composite head fits Presta, Schrader, and Dunlop valves without switching internal parts
- Thumb lock creates an air-tight seal
- Steel handle
- Industrial quality brass pressure gauge
- Gauge is mid-mounted for easy reading
- Reinforced high pressure hose
- Stable three-point composite base
- Includes inflating needle



### PFP-2 Professional Mechanic Floor Pump

The PFP-2 is a shop quality pump for the professional mechanic. Packed with features and built for years of dependable service.

- Smooth operating double barrel design with anodized aluminum outer barrel
- Cast alloy head fits Presta, Schrader, and Dunlop valves without switching internal parts
- Cast alloy thumb lock creates an air-tight seal
- Oversized, ergonomically-designed handle with "soft-touch" rubber grips
- 2" industrial quality brass pressure gauge
- Gauge is mounted on top of pump for easy reading
- Extra long reinforced hose
- Oversized cast alloy base uses a three-point design and a non-skid rubber foot for superior stability
- Includes inflating needle

*"Built to the same high standards of Park's other legendary tools."*  
Velo News. July 2003

*"Every part of the Park Tool PFP-2 pump drips with quality."*  
Dirt Rag Magazine. July 2003

*"A nearly flawless pump."*  
Bicycling Magazine. August 2003



### GP-2 Super Patch Kit

One of our most successful products ever! We worked with 3M to produce a self-adhesive tube patch that stretches, flexes, twists, and turns right along with the tube. No messy glue, no bulky packaging. Lightly roughen tube with the included sandpaper, clean, apply patch, and you're ready to go. Six patches with sandpaper in a neat little carry along box. Available individually carded (GP-2C) or in a handy 50 kit countertop display.

**Packaged carded: GP-2C**  
**Display box: GP-2**



### TB-1 Emergency Tire Boot

Cut, scraped, and even worn sidewalls can easily and securely be patched using the Park Tool TB-1 Tire Boot. The TB-1 is made with a thin, extra tough film that will withstand the most demanding conditions on the road or trail until the tire can be replaced. To use, simply peel off the protective backing and position the TB-1 inside the tire casing over the clean and dry/cut or worn area. A super strong adhesive using 3M technology keeps the TB-1 in position while reinstalling the tire and tube. There's no easier or more effective way to boot a cut or worn tire.

**Packaged carded: TB-1C**



### VP-1 Vulcanizing Patch Kit

The VP-1 Patch Kit includes six thin and flexible patches with tapered edges to blend with the tube's profile. Four round patches are 25 mm in diameter for smaller holes. Two oval patches, 25 mm x 35 mm, are for wider cuts. A tube of self-vulcanizing fluid bonds the patch to the tube at the molecular level. Each kit is packaged in a small plastic box with sandpaper for cleaning the tube and instructions. Available individually carded or in a handy 36 kit countertop display.

**Packaged carded: VP-1C**  
**Display box: VP-1**





### PPM-3 Park Pack Mini Tool Kit

The PPM-3 is a collection of high quality tools that are lightweight, compact, and perfect for taking on rides. Includes CT-6 Folding Chain Tool, TL-1 Tire Levers, Double-Ended Spoke Wrench, #297 Open End Wrench (8, 9, 10mm), IB-1 Mini Fold Up Hex Wrench/Screwdriver Set, GP-2 Pre-Glued Patch Kit, and TB-1 Tire Boot. The tools all fit neatly into a nylon tool wallet that slips easily into a jersey pocket or seat pack.

**Packaged carded: PPM-3**

**Updated**



### PK-57 Professional Tool Kit

Designed as a "do it all" kit for the home mechanic or as a solid starter kit for the professional shop mechanic, the PK-57 is a very special 59 piece collection of our very finest shop tools. While it includes the tools needed to perform almost any basic repair or adjustment on the bike, the PK-57 also includes the specialty tools to perform many advanced repair tasks,

such as installing and removing headset races, installing crown races, cutting fork steerer tubes, straightening derailleur hangers, tapping threaded frame braze-ons, dishing wheels, and more. The entire kit comes in a tough, oversized toolbox, which has plenty of extra room for additional tools and spare parts.

**Updated**



## BK-2

## Roll-Up Workshop

The Park Tool Roll-Up Workshop supplies the home mechanic with almost all the specialty bike tools needed to repair and maintain most current model bikes. Add this kit to a few common household tools and the possibilities are endless. The Roll-Up Workshop includes a heavy weight nylon carrying case with 17 assorted tools, nylon and mesh storage pockets, grommets for hanging, and a super tough buckle to hold it all together. Perfect for bringing to the races or to rides for last minute repairs.

**Updated**



## AK-32 Advanced Mechanic Tool Kit

Designed specifically for the home mechanic that wants the best, the AK-32 Advanced Mechanic Tool Kit is a special 35-piece collection of our finest "shop quality" tools, all packaged in a tough tool box. The AK-32 includes all the most frequently used tools, as

well as some items a mechanic should not be without – basically, everything needed to perform most repair and maintenance tasks, from brake adjustments to headset overhauls, on the majority of current model bikes.





## WTK-1 Essential Tool Kit

Designed for the casual cyclist, the economical WTK-1 contains the tools needed for many basic adjustments and repairs at home or on the road. Includes: 3, 4, 5, 6mm hex wrenches; tire levers; patch kit; straight blade screwdriver, and a small adjustable wrench—all housed in a compact, ready-to-go tool wallet.

Packaged carded: WTK-1C



## IB-1 I-Beam Mini Fold Up HexWrench/Screwdriver Set

Perfect for taking on rides, the strong, compact, lightweight IB-1 features our unique I-Beam handle surrounded by 3, 4, 5, 6 and 8mm hex wrenches and a straight blade screwdriver.

Packaged carded: IB-1C



## IB-2 I-Beam Mini Fold Up HexWrench/Screwdriver/Torx Set

The IB-2 features our unique I-Beam handle with 1.5, 2, 2.5, 3, 4, 5, 6, and 8mm hex wrenches; a T25 Torx wrench; and a straight blade screwdriver. Strong, compact, and lightweight, the IB-2 is a great tool for taking on the road or trail.

Packaged carded: IB-2C

## Repair Help

The home mechanic can choose from four different recommended tool lists at: [www.parktool.com/repair\\_help/toollists.shtml](http://www.parktool.com/repair_help/toollists.shtml)

For the retailer and professional mechanic, see our recommended tool lists under Dealer News at: [www.parktool.com/for\\_dealers/dealernw.shtml](http://www.parktool.com/for_dealers/dealernw.shtml)

## TOOLS in KITS

Park No.	Tool	BK-2	AK-32	PK-57
AV-1	Axle Vise			X
AWS-1	Hex Wrench Set, 4/5/6mm		X	
AWS-3	Hex Wrench Set, 2/2.5/3mm		X	
AWS-10	Hex Set, 1.5, 2, 2.5, 3, 4, 5, 6mm	X		
BBT-2	Cartridge Bottom Bracket Tool for Shimano® and Isis®	X	X	X
BBT-5	Bottom Bracket/ Cassette Lockring Tool for Campagnolo®			X
BBT-8	Chainring Lockring/ Bottom Bracket Tool			X
BT-2	Fourth Hand Brake Tool			X
CBW-1	Open End Wrench, 8/10mm	X	X	X
CBW-4	Open End Wrench, 9/11mm	X	X	X
CC-2	Chain Checker			X
CC-3	Chain Wear Indicator		X	
CCP-2	Crank Puller for Square Hole Crank Arms			X
CCP-4	Crank Puller for Splined Crank Arms			X
CCW-14R	Crank Wrench 14mm		X	X
CM-5	Cyclone® Chain Scrubber		X	X
CN-10	Cable & Housing Cutter	X	X	X
CNW-1	Chainring Nut Wrench		X	X
CRS-1	Crown Race Setting System			X
CT-3	Screw Type Chain Tool		X	X
CT-5	Mini ChainBrute® Chain Tool	X		
CWP-6	Universal Crank Puller and 8mm Wrench	X	X	
DAG-1	Deraillleur Alignment Gauge			X
DCW-1	Cone Wrench, 13/14mm	X		
DCW-2	Cone Wrench, 15/16mm	X		
FR-5	Cassette locking tool for Shimano®, SRAM® etc.	X	X	X
GP-2	Super Patch Kit	X	X	X
GSC-1	GearClean® Brush	X	X	X
HCW-4	Box-End 36mm and Bottom Bracket Pin Spanner			X
HCW-5	Double-Sided Bottom Bracket Lockring Tool			X
HCW-15	36/32mm Headset Wrench	X	2	X
HCW-16	Chain Whip/ 15mm Pedal Wrench	X		
HHP-2	Bearing Cup Press			X
HR-8	8mm Hex Wrench		X	
HW-2	Professional Headset Locknut Wrench 32mm and 36mm			X
PH-1	P-Handled Hex Wrench Set w/ Holder (Set of 8)			X
PPL-1	PolyLube 1000 Lubricant, 4 oz.		X	
PPL-2	PolyLube 1000 Grease in one pound tube			X
PW-3	Pedal Wrench		X	
PW-4	Professional Pedal Wrench			X
RT-1	Headset Cup Remover			X
SA-3	Heavy Duty Shop Apron			X
SBC-1	Spoke, Bearing, & Cotter Gauge		X	X
SCW-13	Shop Cone Wrench, 13mm		X	X
SCW-14	Shop Cone Wrench, 14mm		X	X
SCW-15	Shop Cone Wrench, 15mm		X	X
SCW-16	Shop Cone Wrench, 16mm		X	X
SCW-17	Shop Cone Wrench, 17mm		X	X
SCW-18	Shop Cone Wrench, 18mm		X	X
SCW-19	Shop Cone Wrench, 19mm		X	X
SG-6	Threadless Saw Guide			X
SR-1	Chain Whip/Freewheel & Lockring Remover		X	
SR-2	Professional Sprocket Remover / Chain Whip			X
SW-0	Precision Spoke Wrench, 80 Ga./127		X	X
SW-1	Precision Spoke Wrench, 80 Ga./130		X	X
SW-2	Precision Spoke Wrench, 80 Ga./136		X	X
SW-7	Triple Spoke Wrench, 80 Ga./127, 130, 136	X		
TAP-7	Tap For Rear Wheel Dropout Alignment Screws 3mm x .5			X
TAP-8	Tap For Water Bottle, Toe Clip, Fender, and Rack Bosses 5mm x .8			X
TAP-9	Tap For Cantilever Brake Bosses 6mm x 1mm			X
TAP-10	Tap for Deraillleur Hanger 10mm x 1mm			X
TB-1	Tire Boot - Set of 3		X	X
TL-1	Tire Levers - Set of 3	X	X	X
TL-10	Shop Tire Lever			X
TNS-1	Threadless Nut Setter			X
WAG-3	Wheel Alignment Gauge			X



### MTB-3 Rescue Tool

The MTB-3 Rescue Tool is a premium quality multi-tool with the design and innovative features you'd expect from the top name in bicycle tools. Small and light enough to slip into a pocket or seat pack, the MTB-3 contains 22 tools, each carefully selected for nearly any repair on the road or trail. Manufactured to the highest standards, all tools are finely polished stainless steel or nickel plated steel. Unique three-piece design (patent # 6,622,329) makes each tool easy to access and easy to use. Super tough nylon handles provide excellent grip when using tools. Includes nylon carrying case with embroidered Park Tool logo. Tools included:

- Chain tool
- Tire levers (2)
- Phillips head screwdriver
- Straight blade screwdriver
- T25 star-shaped driver
- 1.5, 2, 2.5, 3, 4, 5, 6, & 8mm hex wrenches
- 8, 9, and 10mm box end wrenches
- Bottle opener
- .127", .130", & .136" spoke wrenches
- Pedal wrench
- Serrated knife

Packaged carded: MTB-3C

### MTB-7 Rescue Tool

An outstanding value, the quality MTB-7 Rescue Tool is packed with 21 useful tools for emergency repairs on the road or trail. Includes nylon carrying case with embroidered Park Tool logo. Tools included:

- 2, 2.5, 3, 4, 5, 6, & 8mm hex wrenches
- Tire levers (2)
- Phillips head screwdriver
- Straight blade screwdriver
- T25 star-shaped driver
- .127", .130", & .136" spoke wrenches
- 8, 9, & 10mm box end wrenches
- Chaining nut wrench
- Dust cap remover
- Serrated knife
- Bottle opener

Packaged carded: MTB-7C



### MTB-2 Micro Tool Box

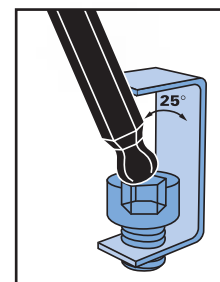
This is just the tool needed for quick adjustments on the road or trail. A smaller, lighter, version of our original MTB-1 Micro Tool Box, the MTB-2 contains 14 Tools: three spoke wrenches, a straight blade screwdriver, 2, 2.5, 3, 4, 5, and 6mm hex wrenches, two tire levers, 8 and 10 mm box end wrenches, and a bottle opener. Each tool folds out of two super tough nylon handles. The handles provide excellent leverage and fit together to form a "tool box" shell that protects the tools and prevents the tools from poking through other items in a jersey or pack. The MTB-2 is a small take-along tool that's always ready to help get you out of a jam on the road or trail.

Packaged carded: MTB-2C



## PH-1 P-Handled Hex Wrench Set With Bench Mount/ Wall Mount Wrench Holder

These thoughtfully designed P-handled hex wrenches fit the task at hand, as well as they fit in your hand. The long shaft of each wrench is fitted with a Bondhus Balldriver for those hard to reach bolt heads. The short end of the wrench is neatly chamfered and extends from the handle for use when fully tightening bolts in high torque applications. Shaft lengths are optimally selected to minimize the wind-up and flex experienced with longer wrenches. The hex wrenches are made from Bondhus Protanium™ high torque industrial steel for long life. Special "speed bearing" attachment facilitates installation and removal of long-threaded socket head bolts and nuts. The offset P-handles are made from a durable nylon material and are ergonomically-designed for comfortable use. All the wrenches fit neatly in the included bench mount/wall mount holder. The PH-1 set includes 2, 2.5, 3, 4, 5, 6, 8 and 10mm sizes.



**PH-2** 2mm P-Handle Hex Wrench

**PH-6** 6mm P-Handle Hex Wrench

**PH-2.5** 2.5mm P-Handle Hex Wrench

**PH-8** 8mm P-Handle Hex Wrench

**PH-3** 3mm P-Handle Hex Wrench

**PH-10** 10mm P-Handle Hex Wrench

**PH-4** 4mm P-Handle Hex Wrench

**PH-11** 11mm P-Handle Hex Wrench

**PH-5** 5mm P-Handle Hex Wrench

**PH-12** 12mm P-Handle Hex Wrench

NEW

NEW

## PH-T25 P-Handled T25 Torx Wrench

Our comfortable P-handle with a T25 Torx Wrench for the T25 bolt heads found on many disc brake calipers and rotors. Includes "Speed Bearing" attachment for fast installation and removal of long threaded bolts. Wrench is made from Bondhus Protanium™ high torque industrial steel for long life.



## HXS-1 Professional L-Shaped Hex Wrench Set

The same shop quality L-shaped hex wrenches as the HXS-2, but without the bench mount/wall mount holder.



## HR-8 8mm Hex Wrench

A long-handled L-shaped wrench for installing and removing crank bolts with an 8mm socket. Made from industrial quality Bondhus Protanium™ high torque steel. "Speed Bearing" attachment for quick installation and removal of long threaded bolts.

Packaged of carded: HR-8C



## HR-11 11MM and 12MM Hex Wrenches

11 and 12 mm hex wrenches are necessary for removing the freehub bodies from several popular brands of hubs (Mavic, Sun Race, Sovos, and others). Park Tool HR-11 and HR-12 are made from Bondhus Protanium™ industrial quality steel with chamfered tips for a precision fit.



## HXS-2 L-Shaped Hex Wrench Set With Holder

These shop quality L-shaped hex wrenches have a genuine Bondhus® balldriver tip on the long arm (excluding 8 and 10 mm) for hard to reach bolt heads and a straight tip on the short arm for high torque applications. Wrench tips are precision chamfered for a clean, tight fit. Special "speed bearing" attachment facilitates installation and removal of long-threaded bolts. Wrenches are made from industrial quality Bondhus Protanium™ high torque steel. Set includes 2, 2.5, 3, 4, 5, 6, 8, and 10 mm sizes. Bench mount/wall mount holder keeps wrenches organized and is fan-shaped for easy access to all wrench sizes.



## HXH-1 Bench Mount / Wall Mount Wrench Holder

The HXH-1 keeps hex wrenches organized and easy to access. Holds 2, 2.5, 3, 4, 5, 6, 8, and 10mm sizes. Can be set on bench or mounted to plywood or pegboard bench wall (pegboard fasteners included).





## MT-1 Multi-Tool

The MT-1 is a high quality multi-tool that is uncomplicated, easy to use, and effective. Made of investment cast steel and electroless nickel plated for durability, the MT-1 features 3mm, 4mm, 5mm, 6mm, and 8mm hex wrenches; 8mm, 9mm, and 10mm socket wrenches; and a straight blade screwdriver. Each of the nine tools is carefully positioned so the MT-1 can be effectively used on those "tough to get to" nuts, bolts, and screws.



Packaged carded: MT-1C

## 3-Way Hex Wrench Sets

Park Tool introduced the bicycle industry to the 3-way Hex Wrench Set more than 20 years ago. Our latest versions are stronger and more comfortable than ever. They fit perfectly in the palm of the hand and provide tremendous leverage. Hexes are made from Bondhus Protanium™ high torque industrial steel and are heat-treated for long life. Tips of hexes are chamfered for a perfect fit.

### AWS-1 Blue

4mm, 5mm, and 6mm  
Hex Wrench Set

Packaged carded:  
AWS-1C

### AWS-3 Green

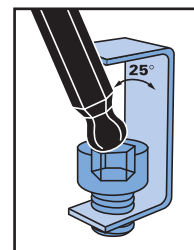
2mm, 2.5mm, and 3mm  
Hex Wrench Set

Packaged carded:  
AWS-3C

### AWS-8 Black

4mm, 5mm, and 6mm  
Hex Wrench Set  
with balldriver tips

Packaged carded:  
AWS-8C





## TWS-2 Torx Wrench Set

The use of Torx (star-shaped) fittings on disc brakes, pedals, chainring bolts, etc. are becoming increasingly popular. The TWS-2 combines the wrench sizes currently being used on bicycle components (T7, T9, T10, T15, T20, T25, T27, T30 and T40) in a convenient fold-up set. Composite handle is extremely strong (stronger than steel handles), comfortable to use, and slip resistant.

**Packaged carded: TWS-2C**

## Fold Up Hex Wrench Sets

Park Tool Fold Up Hex Wrench Sets use a multi-position composite handle that is comfortable, lightweight, slip-resistant, and 40% stronger than steel handles. Hexes have chamfered tips for a perfect fit and are made from Bondhus Protanium™ high torque industrial steel for long life.

**AWS-9** 4mm, 5mm, and 6mm Hex Wrench Set with Phillips and straight blade screwdrivers

**Packaged carded: AWS-9C**

**AWS-10** 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, and 6mm Hex Wrench Set

**Packaged carded: AWS-10C**

**AWS-11** 3mm, 4mm, 5mm, 6mm, 8mm, and 10mm Hex Wrench Set

**Packaged carded: AWS-11C**

**AWS-12** 2mm, 3mm, 4mm, 5mm, 6mm, 3/16", 7/32", and 1/4" Hex Wrench Set

**Packaged carded: AWS-12C**







## SR-1 Sprocket Remover / Chain Whip

This combination chain whip and freewheel/locking remover wrench is heat treated to prevent bending and flexing. It also features hardened pins to keep the chain in place and a comfortable handle. Hex opening fits Park Tool freewheel removers.



## FRW-1 Freewheel Remover Wrench

This tool securely holds freewheel and locking tools (FR-1 through FR-8) for removal and installation. Features an investment cast head with locking knob and a long, round, vinyl dipped handle for superior leverage.



## SR-2 Sprocket Remover / Chain Whip

This shop quality chain whip gives you incredible leverage without worry of slippage. Heavy duty, heat treated head with a round vinyl coated handle. Hardened bolts hold securely and make chain replacement easy.



## Freewheel Removers FR-1 through FR-8

Heat treated alloy steel, one inch base fits wrench or bench vise. Thin wall construction allows use without removal of cones and locknuts.

Packaged carded: FR-1C through FR-8C, BBT-5C



**FR-1**  
Fits Shimano®, Sachs Aris®, and Sun Race® freewheels.



**FR-2**  
Fits Sun Tour® two notch freewheels. Not recommended for Sun Tour four to six notch freewheels.



**FR-3**  
Fits all Sun Tour four notch freewheels since 1986.



**FR-4**  
Fits Atom®, Regina®, splined Zeus®, and some Schwinn Approved® freewheels.



**FR-5G**  
Fits Shimano®, SRAM®, SunRace®, SunTour®, Chris King® and other cassette lockrings. Also Fits Shimano disc brake lockrings. Guide pin stabilizes tool.



**FR-5**  
Fits Shimano®, SRAM®, SunRace®, SunTour®, Chris King® and other cassette lockrings. Also fits Shimano disc brake lockrings.



**FR-6**  
Removes four-notch BMX/single-speed freewheels from hubs with 1.37 x 24 TPI threads.



**FR-7**  
Fits Falcon® freewheels



**FR-8**  
Removes four-notch freewheels from "flip-flop" BMX hubs with 30 x 1mm threads.



**BBT-5**  
Fits Campagnolo® cassette lockrings and Campagnolo® Record™, Chorus™, and Athena™ bottom brackets.



## HCW-16 Chain Whip / 15mm Pedal Wrench



## HR-11 11mm and 12mm Hex Wrenches

11 and 12 mm hex wrenches are necessary for removing the freehub bodies from several popular brands of hubs (Mavic, Sun Race, Sovos, and others). Park Tool HR-11 and HR-12 are made from Bondhus Protanium™ industrial quality steel with chamfered tips for a precision fit.



Repair Help

Cassette/freewheel removal:  
[www.parktool.com/repair\\_help/cogs.shtml](http://www.parktool.com/repair_help/cogs.shtml)



### Shop Cone Wrenches SCW-13 through SCW-20

The standard of the industry, Park Tool Shop Cone Wrenches are unmatched in quality and performance. The special "Y" head design puts more material where it's needed for strength and durability. Precision sizing and a military grade industrial phosphate finish ensure an accurate fit and consistent quality. Thin enough to use on the narrowest of adjusting cones, the SCW Shop Cone Wrenches have a long, vinyl dipped handle for leverage and comfortable use. Sizes 13mm to 20mm, SCW-13 through SCW-20.



### Tech Note

Do not use cone wrenches to remove or install pedals!

### SCW-SET Shop Cone Wrench Set

The SCW-SET includes SCW-13 to SCW-19



### AV-4 Heavy Duty Axle and Pedal Vice

Designed to securely hold 5/16" to 9/16" axles for easy wheel hub and pedal adjustments, the AV-4 is a must for every mechanic's workbench. Just insert axle into one of the three precision-machined openings and tighten in a bench vice. The AV-4's bridge spring keeps the jaws aligned and allows the tool to automatically open when the bench vice is opened. Aluminum jaws won't damage axle threads.



### DCW-1, 2, 3, 4 Double-Ended Cone Wrenches

These cone wrenches are designed for the home mechanic or occasional user. They're made of thin steel and are nickel plated and heat treated for long use. Available in four popular sizes from 13mm to 18mm. Their small size makes them ideal to carry along for quick repairs.

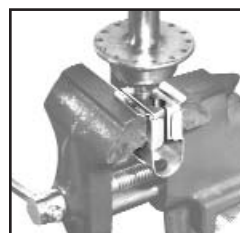
**DCW-1** 13mm and 14mm

**DCW-2** 15mm and 16mm

**DCW-3** 17mm and 18mm

**DCW-4** 13mm and 15mm

**Packaged carded:**  
DCW-1C through DCW-4C



### AV-1 Axle Vise

This tool holds the axle so it will not turn while work is done on the hub. It has two different diameter receptacles so it will work on front and rear axles. It is simple to use - just insert the axle into the proper diameter opening and tighten the bench vise. The jaws will open automatically when the vise is opened.







## BBT-5 Bottom Bracket / Cassette Tool for Campagnolo®

The BBT-5 fits 12-tooth internally splined Campagnolo®, Record®, Chorus®, and Athena® bottom bracket cartridges and all Campagnolo® cassette lockrings.

Packaged carded: BBT-5C



## BBT-2 Cartridge Bottom Bracket Tool for Shimano® and ISIS

The BBT-2 fits 20-tooth internally splined Shimano® and ISIS drive cartridge bottom brackets, including those with oversized spindles. Simply insert the BBT-2 into the splined cartridge and either tighten or loosen using a 3/8 inch ratchet driver or a 32mm wrench.

Packaged carded: BBT-2C



## BBT-8 Chainring Lockring and Bottom Bracket Tool

The BBT-8 Bottom Bracket Tool is used for installing and removing 8-notch Shimano® XTR M950 and Truvativ® ISIS Drive® bottom bracket cups. Also fits 8-notch chainring adapter lockring on some Shimano® and Truvativ® cranksets.



## SPA-6 Adjustable Spanner

This spanner uses hardened, replaceable pins. Designed for heavy-duty use, the distance between pins is adjustable, allowing use on virtually any hanger cup.

Packaged carded: SPA-6C

Replacement Pins 1501: Replacement pins for SPA-6 and HCW-4.



Repair Help

Bottom bracket installation:  
[www.parktool.com/repair\\_help/FAQcartdg.shtmlb](http://www.parktool.com/repair_help/FAQcartdg.shtmlb)

## BBT-4 Bottom Bracket Tool

The BBT-4 is made for the installation and removal of 6-notch cartridge cups used on Campagnolo® Veloce®, Mirage®, Centaur®, Daytona® and Avanti® sealed cartridge bottom brackets. The handle is vinyl coated for comfort.



## BBT-9 Bottom Bracket Tool

The BBT-9 is used to remove and install Shimano® Hollowtech II bottom brackets. One end of the BBT-9 securely engages the 16 notches of the bottom bracket cups, while the other end engages the 8 internal splines of the crank arm adjustment cap.



## BBT-7 Lockring Wrench

The BBT-7 Lockring Wrench is used for installing and removing the lockring used on Dura Ace® 7700 and XTR® 950 Bottom Brackets. It is laser cut and engages five of the lockring's six notches for a precise, secure fit. The handle is vinyl dipped for comfort. While made specifically to fit Dura Ace® and XTR® Lockrings, it also fits several other lockrings as well.



## Tech Note

What specific tools are needed to work on that Bottom Bracket?

Bottom bracket brand and model	Park Tool
Shimano® cartridge bottom brackets and Dura-Ace 7703	BBT-2
Shimano® Hollowtech II, Truvativ® Giga X-Pipe, Race Face® X-type, FSA® Megaexo	BBT-9
Shimano® Dura-Ace® 7700 (adjustable type)	BBT-7 and BBT-2
Shimano® XTR® M950 (adjustable type)	BBT-7 and BBT-8
Shimano® XTR® M952 (cartridge type)	BBT-2
Campagnolo® Record, Chorus, Athena	BBT-5
Campagnolo® Daytona, Veloce, Mirage, Avanti, Centaur, Xenon	BBT-4
Sachs®, Thun SKF®	BBT-4
Truvativ® ISIS Drive®	BBT-8
Truvativ® square spindle type	BBT-2
Race Face® ISIS Drive® and FSA® ISIS Drive®	BBT-2
Real®	BBT-8
Syncros®	BBT-2
World Class®	BBT-2



## HCW-4 Crank and Bottom HCW-5 Bracket Wrenches

Our popular and versatile Crank Wrenches feature our proven "Y" head design.

**HCW-4** 36mm box-end and bottom bracket pin spanner. (Replacement pins-#1501)

**HCW-5** Double sided bottom bracket locking hook spanner.



**Repair Help**

**Installing crankarms:**

[www.parktool.com/repair\\_help/cranks.shtml](http://www.parktool.com/repair_help/cranks.shtml)



## RMW-1 Ratcheting Metric Wrench

A small, quality hand wrench with 8mm and 10mm sockets. Fits many nuts and bolts throughout the bicycle. Useful on brakes, derailleurs, etc. Chrome plated for long, tough use.



## CBW-1 Metric Wrenches CBW-4

These small, nickel plated wrenches can be used on brakes, derailleurs, etc.

**CBW-1** 8mm open - 10mm open

**CBW-4** 9mm open - 11mm open

**Packaged carded: CBW-1C and CBW-4C**



## Pin Spanners SPA-1, SPA-2 and SPA-4

Park Tool Pin Spanners have been designed to give maximum usefulness and versatility at the lowest possible cost. Tough, high carbon steel is used on each tool to ensure long life. Handle is vinyl coated to give a good grip. Each Pin Spanner is color coated for easy recognition.

### SPA-1 Green

Fits adjusting cup on most 3-piece cranks.

**Packaged carded: SPA-1C**

### SPA-2 Red

Fits one-key release dust caps and adjusting cone on most freewheels.

**Packaged carded: SPA-2C**

### SPA-4 Yellow

Fits adjusting cone on most 1-piece cranks.

**Packaged carded: SPA-4C**



## PH-10 10mm P-Handle Hex Wrench

A comfortable P-Handle Hex Wrench for removing crank bolts and freehub bolts with a 10mm socket.



## CCP-2 Crank Puller

The standard of the industry for over 25 years. The CCP-2 uses a long comfortable handle and extra fine thread that provides the needed leverage to remove even the tightest cranks. Our unique "floating tip" ensures smooth operation and long life. Fits all cranks using 22mm x 1 threads and square, tapered bottom bracket spindles.

Packaged carded: CCP-2C



## CCP-4 Crank Puller

The CCP-4 Crank Puller is specifically designed to remove crank arms from splined Shimano® Octalink and ISIS Drive® bottom bracket spindles that do not use a "One-Key Release" system. It uses a long, comfortable handle and a fine thread for the leverage needed to remove tight crank arms. Rotating tip ensures smooth operation and long life.  
**Note:** The CCP-4 will not work on crank arms that fit standard square, tapered bottom bracket spindles.

Packaged carded: CCP-4C



## CCW-14R Crank Wrench

The CCW-14R has a strong and deep socket so it will work on any 14mm crank nut or bolt. The CCW-14R also has a longer handle which is vinyl dipped for comfort. Heat treated and chrome plated for strength and durability.

Packaged carded: CCW-14RC

## CWP-6 Crank Puller and Wrench

The CWP-6 is a compact crank puller with a built-in 8mm hex for removing crank bolts. Includes two rotating tips (11.3mm and 16.3mm) so it can be used to remove splined Octalink® and ISIS Drive® crank arms, as well as square-holed crank arms

Packaged carded: CWP-6C



## CNW-1 Chainring Nut Wrench

This handy tool fits securely into the slots on the reverse side of a chainring bolt so it doesn't spin when loosening the bolt. Designed specifically for the job, the CNW-1 makes removing chainring bolts much easier.



## CCW-4 Ratcheting Crank Axle Wrench

Extra-deep 14mm socket (for crank bolts) and 15mm box-end socket (for axle nuts) on a long, ratcheting, reversing wrench. Quality chrome plated steel.

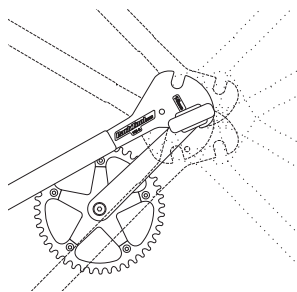


## HR-8 8mm Hex Wrench

A long-handled L-shaped wrench for installing and removing crank bolts with an 8mm socket. Made from industrial quality Bondhus Protanium™ high torque steel. "Speed Bearing" attachment for quick installation and removal of long threaded bolts.

Packaged of carded: HR-8C



**PW-4****Professional Pedal Wrench**

The PW-4 Professional Pedal Wrench is designed for heavy shop use. Two 15mm wrench openings are oriented at 30 degree and 45 degree angles so the user can always achieve the best mechanical advantage, regardless of the pedal position. An oversized, asymmetrical head is made from Cro-Moly steel for superior strength and durability. While strong, the PW-4 is thin enough to access all wrench flats. An extra long 14" handle provides the leverage to remove even the tightest pedals. The handle is round and vinyl dipped so it won't dig into the hand like flat wrenches.

**PW-3****Pedal Wrench**

Made from Cro-Moly steel for a shop quality pedal wrench made to last. 15mm and 9/16" precision openings and a long, round, vinyl dipped handle that won't dig into your hand like flat pedal wrenches.

10 Speed  
Compatible

**HCW-16****Chain Whip/  
15mm Pedal Wrench****Frame Taps TAP-7 through TAP-10**

Frame Taps will become a lifesaver at some time for virtually every mechanic. As with all Park Tool Taps, these are made of high carbon steel and are precision ground. Park Tool Frame Taps cut easily and fit conventional tap handles.

**TAP-7**

3mm x .5 for rear wheel drop-out alignment screws.

**TAP-8**

5mm x .8 for water bottle, toe clip, fender and rack bosses.

**TAP-9**

6mm x 1 for cantilever brakes and large fender bosses.

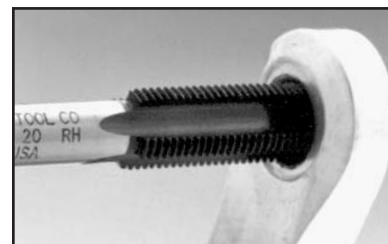
**TAP-10**

10mm x 1 for derailleur hanger.

**Repair Help**

*Pedal removal and installation:*

[http://www.parktool.com/repair\\_help/pedals.shtml](http://www.parktool.com/repair_help/pedals.shtml)

**TAP-3  
TAP-6****Pedal Taps**

Clean out or restore damaged threads in crank arms with these pedal taps. These taps can be used with either steel or alloy crank arms and are available in two popular sizes: 1/2" and 9/16" in both right and left-hand threads. Made of high carbon steel, precision ground, and hardened to stay sharp, they cut easily and fit all conventional tap handles.

**Packaged carded: TAP-3C, TAP-6C**

**TAP-3C Set of 2, 1/2" x 20 Left and Right**

**TAP-6C Set of 2, 9/16" x 20 Left and Right**





## Headset Wrenches HCW-6, 7, 9, 15

Our popular and versatile Head Wrenches feature our proven "Y" head design and all headset wrench openings are lazer cut to ensure a tight, accurate fit. Precise sizing is achieved by high voltage computer controlled lazer technology after heat treat. Waiting until the wrench is heat treated eliminates shrinkage and expansion of the steel after the wrench is sized. It takes longer, and costs more, but it's worth the extra effort.

<b>HCW-6</b>	32mm head wrench and 15mm pedal wrench.	<b>HCW-9</b>	36mm and 40mm head wrench.
<b>HCW-7</b>	30mm and 32mm head wrench.	<b>HCW-15</b>	32mm and 36mm head wrench.



## RW-1 RW-3 Road Wrenches

An ideal head and pedal wrench to carry along. Small size fits in small bag, or mounts under water bottle cage using slotted center. Nickel plated, heat treated steel.

**Packaged carded: RW-1C, RW-3C**

**RW-1** 32mm head/15mm pedal wrench.

**RW-3** 36mm head/15mm pedal wrench.

## HW-2 Professional Headset Locknut Wrench

Most headset wrenches are too thin to use on the top locknut of headsets, particularly aluminum locknuts which can be marred and rounded off very easily. The HW-2 Professional Headset Locknut Wrench is the answer. It has a thick, semi-box opening and a substantial, extra long handle for a firm and precise grip on most 8 point 32mm and 36mm locknuts. Made of investment cast steel.





## CN-10 Professional Cable and Housing Cutter

The CN-10 Cable and Housing Cutter is a shop quality cutter designed specifically for use on all bicycle cables and housing, including hard-to-cut index housing. The CN-10 has cold forged, heat treated steel handles for strength and precision ground cutting jaws for a clean cut on every cable. Dual density molded grips are specially contoured for superior comfort and control. The CN-10 has a built in crimper for cable end caps and a forming hole for reforming housing ends and housing ferrules. A wire latch holds the handles together when not in use.

Packaged carded: CN-10C

### Repair Help

Sizing and cutting housing and cables:  
[www.parktool.com/repair\\_help/cable.shtml](http://www.parktool.com/repair_help/cable.shtml)



## BT-2 Cable Stretcher

Commonly referred to as a "4th Hand", the Park Tool Cable Stretcher pulls cables tight. It features one-hand operation with a thumb lock to hold the cable tight while your hand is removed to tighten pull-up bolts and nuts. Made from heat treated steel, chrome plated, and featuring cushion grips for comfort. A must for any shop, home or professional.



## OBW-1 OBW-2 OBW-3 Offset Brake Wrenches

We call these our offset wrenches because of their unique design, which allows them to be used in tight places, such as centering caliper brakes. OBW-1 has 10mm and 13mm openings, OBW-2 has 11mm and 12mm openings. OBW-3 has a 14mm opening, and the other end fits into the tension springs to rotate the brake on its bolt.

Packaged carded:  
OBW-1C, OBW-2C, OBW-3C



## BT-3 Brake Toe-In Tool

The Brake Toe-In-Tool is used for aligning caliper brake pads in relation to the rim. Brake pads that are perfectly parallel to the rim will "squeal." Park Tool's BT-3 allows pads to be easily "toed-inward." Simply place tool on flats of caliper arms and gently twist. Hardened, chrome plated chrome-moly with a vinyl coated handle for good grip.



## BT-5 Adjustable Third Hand Brake Tool

Designed to be used on all brakes, caliper and cantilever. The BT-5 can be used on many different parts of brakes—against shoe, mounting bolt, etc., whatever is more convenient. Squeeze handle and turn knob to lock in place. Chrome plated and vinyl coated to protect the brake finish.





## BCB-4 Bike Cleaning Brush Set

A clean bike looks great, performs better, lasts longer, and is easier to maintain. Now with the BCB-4 Bike Cleaning Brush Set, having a clean bike is easier than ever. The BCB-4 contains four brushes, each specially designed for a specific cleaning purpose: a double-ended gear cleaning brush, a tire and frame tube cleaning brush, a frame cleaning sponge brush, and a tapered detail brush. "Sure Grip" dual density handles insure a positive grip even with wet hands.

Packaged carded: BCB-4



## PPL-1 PolyLube 1000 Lubricant

Park Tool's poly-urea lubricant was developed specifically for bicycle maintenance and repair. PolyLube 1000 has an extremely high shear strength to protect vital parts under extreme conditions. PolyLube 1000 also repels moisture and is compatible with conventional greases. Available in a handy 4oz. tube (PPL-1) and a 16oz. tub (PPL-2).



## CL-1 Synthetic Blend Chain Lube with Teflon®

**NEW**

A new chain lube from Park Tool, the leader in bicycle maintenance products. Using Teflon® and a proprietary blend of oils, Park Tool Chain Lube works great in wet or dry conditions. It penetrates, reduces friction, prolongs component life, displaces moisture, and protects parts from rust and corrosion. Also work great on cables, spoke nipples, and derailleur and brake pivots. 4 oz. bottle.



## GSC-1 GearClean® Brush

Park Tool's patented GearClean Brush has a unique design. A large comfortable handle with a curved, toothed-end reaches dirt deep between the gears, and tough nylon bristles clean the derailleur and chain. Saves wear and tear on your chain and freewheel. Works great on brakes or other places where dirt collects. 10 speed compatible. Handy size to take along for quick cleaning anywhere. Made of sturdy nylon.

Packaged carded: GSC-1C

10 Speed Compatible





### CM-5 Cyclone® Chain Scrubber

10 Speed Compatible

The CM-5 Cyclone Chain Scrubber uses an extra large solvent reservoir and a series of rotating brushes to get chains really clean. A magnet at the bottom of the Cyclone's solvent reservoir draws particles scrubbed from the chain, effectively keeping them from being redistributed on the chain during cleaning. Durable sponge material draws solvent from the chain as it exits the Cyclone, reducing drips and mess. To make it easy to control and use, we've even added a handle. Works with all multi-speed bikes and some single-speed models.

Packaged carded: CM-5



### RBS-5 CM-5 Rebuild Kit

Packaged carded: RBS-5C



### MG-1 Nitrile Mechanics Gloves

MG-1 Nitrile Gloves keep hands free of grime and protected from potentially harmful chemicals and solvents. MG-1 Nitrile Gloves are thin enough to maintain finger dexterity, yet tough enough to resist snags. They provide superior fit, are easy to slip on and off, and can even be re-used. Sizes M, L, and XL.

Box of 100



Updated

### CG-2 Chain Gang Chain Cleaning System

A dirty drivetrain causes poor shifting and unnecessary wear to expensive parts. The Chain Gang contains everything needed to quickly and easily clean the chain, freewheel cogs, and chainrings. The Chain Gang includes a CM-5 Chain Scrubber, a GSC-1 GearClean® Brush, and an 8oz bottle of CB-2 Citrus ChainBrite. The CG-2 works on all derailleur bikes and many 3-speed and coaster brake bikes.



### CB-2 Citrus ChainBrite

NEW

Biodegradable Citrus ChainBrite is specially formulated for use in the Cyclone Chain Scrubber. It quickly removes the toughest grease and grime buildup, yet won't harm alloy, plastic or rubber parts. Also works great as a general purpose parts cleaning fluid. Flip-top lid makes pouring easy. 16 oz. bottle.






10 Speed  
Compatible

## CT-2 Plier Type Chain Tool

The CT-2 is designed for fast, easy removal or repair of chains. The tremendous leverage generated removes even the toughest rivets. To use, simply put the chain roller in the built-in recess and squeeze the handles. The travel adjusts to return the rivet back the proper distance. Use CTP replacement pins below.



## CT-6 Folding Chain Tool

The CT-6 works like a heavy shop tool, but folds compactly for taking on the road or trail. Features a cast steel body, stainless steel case, replaceable pin (part # 985-1), and a "loosening shelf" for tight links. Works on most derailleur chain (including 10-speed chain)


10 Speed  
Compatible

Packaged carded: CT-6C

## CT-5 Mini Chain Brute Chain Tool

This small chain tool goes anywhere and actually performs like a shop quality tool. The fine thread, special "V"-shaped handle, and super strong replaceable pin make chain removal and installation a breeze. The CT-5 works on any derailleur chain and has a "shelf" for loosening tight links. At only 77 grams, it's the perfect take-along chain tool.


10 Speed  
Compatible

Packaged carded: CT-5C

## CTP Replacement Chain Tool Pin

These pins (not shown), fit Park Tool's CT-1, CT-2, CT-3 and CT-7 Chain Tools. Made from hardened alloy tool steel.

Packaged carded in pairs: CTP-C

## CTP-5 Replacement Chain Tool Pin

These pins (not shown), fit Park Tool's CT-5 Mini Chain Brute Chain Tool. Made from hardened alloy tool steel.

Packaged carded in pairs: CTP-5C

## CT-3 Screw Type Chain Tool

Because of the tremendous force needed to remove chain pins, our Screw Type Chain Tool is made from investment cast steel. Along with superior strength and durability, the CT-3 features a handy "loosening shelf" to remedy stiff links after reassembly. The fine thread and comfortable size enable easy removal of even the toughest chain pins. Like all Park Tool Chain Tools, it's easy to use and built to last.


10 Speed  
Compatible

## CT-7 Screw Type Chain Tool

The CT-7 Chain Tool is specifically designed to work on the wide and tall 3/16" BMX/freestyle chains now becoming popular. The CT-7 also works on 1/8" BMX/freestyle chains. Made from investment cast steel for strength and durability, the CT-7 has a replaceable driving pin (part CTP), a fine thread, and a comfortable handle. Please note: The CT-7 will not work on 3/32" derailleur or 3/32" BMX chains.



## MLP-1 Master Link Pliers

Many derailleur chains use a "master link" that allows the chain to be installed and removed by hand. While this type of masterlink doesn't require a traditional chain tool, over time, dirt and corrosion can make it difficult to separate by hand. MLP-1 Master Link Pliers make removal and replacement of these masterlinks quick and effortless. Simply insert the specially sized jaws into the masterlink and squeeze the handles.



NEW

## CC-3 Chain Wear Indicator

A worn chain shifts poorly and wears sprockets at an accelerated rate. The CC-3 is a "go, no go" gauge designed to accurately indicate when a chain reaches .75% and 1% wear, the points at which most chain manufacturers suggest replacement. Made from precision, laser cut steel.

Packaged carded: CC-3C


10 Speed  
Compatible

## CC-2 Chain Checker

To alleviate poor shifting and uneven drive train wear, most manufacturers recommend chain replacement at or before 1% stretch. Now you can quickly and accurately determine the wear and stretch of any chain with the Park Tool Chain Checker. Simply insert the Chain Checker's pins into two links, press the swing arm gauge tight, and then check the gauge window for an accurate reading.

Packaged carded: CC-2C


10 Speed  
Compatible

## Repair Help

### Chain installation:

[www.parktool.com/repair\\_help/chain.shtml](http://www.parktool.com/repair_help/chain.shtml)

### Chain sizing:

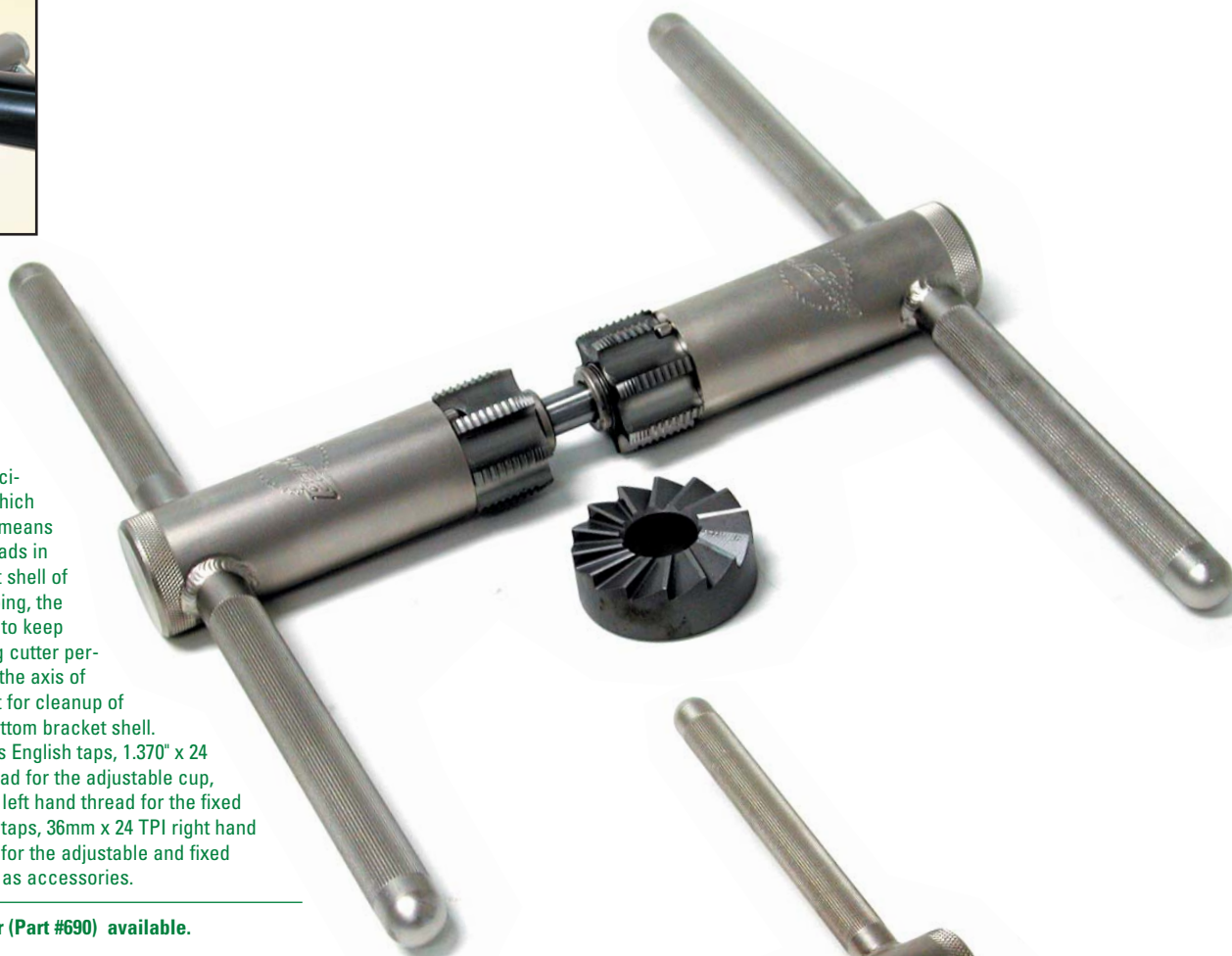
[www.parktool.com/repair\\_help/chainsizing.shtml](http://www.parktool.com/repair_help/chainsizing.shtml)



## BTS-1 Bottom Bracket Tapping & Facing Set

The BTS-1 is a precision tool system which provides a piloted means of tapping the threads in the bottom bracket shell of a frame. After tapping, the taps act as guides to keep the included facing cutter perfectly square with the axis of the bottom bracket for cleanup of the faces of the bottom bracket shell. The BTS-1 includes English taps, 1.370" x 24 TPI right hand thread for the adjustable cup, and 1.370" x 24 TPI left hand thread for the fixed cup. Italian thread taps, 36mm x 24 TPI right hand thread (Part #693), for the adjustable and fixed cups are available as accessories.

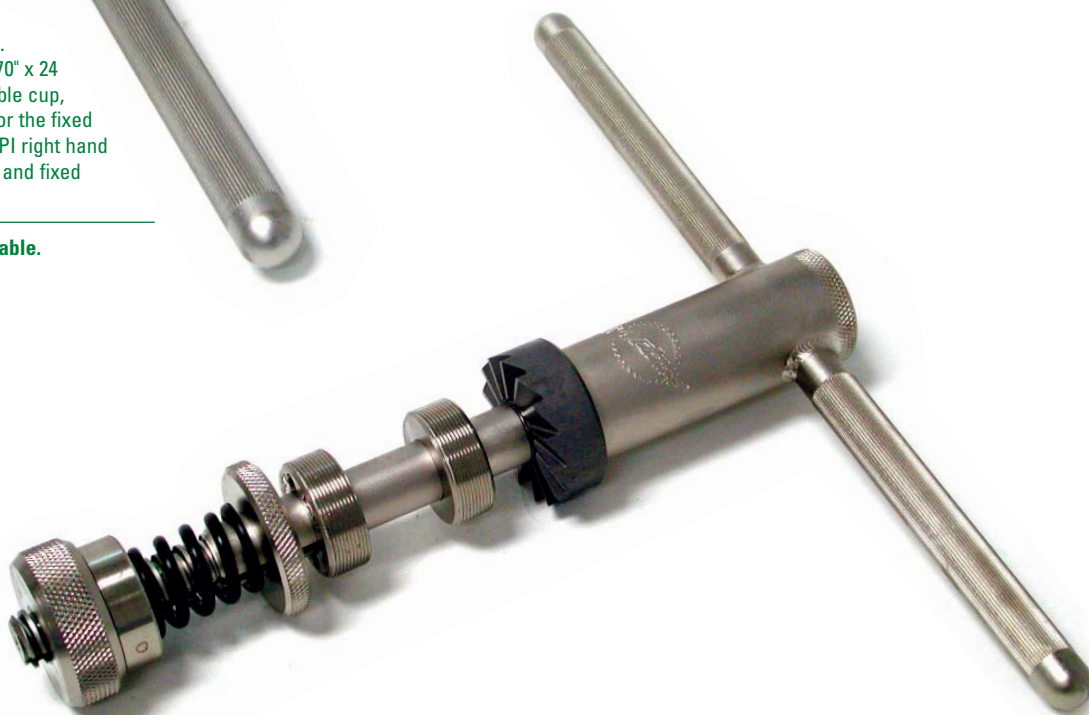
Replacement facer (Part #690) available.



## BFS-1 Bottom Bracket Facing Set

The Bottom Bracket Facing Set is designed to be a complete self-contained facing set, combining top quality precision parts with ease of use. Simply install the threaded inserts using the facer handle, then insert the facing tool through the guides and install the tension spring and speed nut. After applying a liberal amount of cutting oil, the BFS-1 easily cuts the shell material, giving you a clean, faced surface. Now you're ready to install the bottom bracket.

Replacement facer (Part #690) available.



### Tech Note

The BFS-1 uses a powerful spring that can apply significant pressure to the #690 facer. The BTS-1 relies on hand pressure to face the shell. The BFS-1 is useful for frame builders and others who need to remove large amounts of metal from the shell, while the facing feature of the BTS-1 is useful for "cleaning up" minor amounts of paint and metal from the face of the bottom bracket.





## CRC-1 Crown Race Cutting Tool

To insure proper headset performance and longevity, special attention must be given to accurately machine the fork's crown race seat. The CRC-1 is a professional quality machining tool for milling both the outer edge and lower surfaces of the crown race seat. A unique adjusting system allows a tight fit of the tool on any fork, threaded or unthreaded (even forks with externally butted steerer tubes), ensuring a smooth, accurate cut and proper alignment of the fork in the frame. The CRC-1 Crown Race Cutting Set includes high speed steel cutters and adjustable collets to machine 26.5mm and 27.1mm crown race seats on 1" forks and 30.1mm crown race seats on 1-1/8" forks.



## FTS-1 Fork Threading Set

The FTS-1 Fork Threading Set is designed for cutting new threads and for chasing existing threads on fork columns that are not chromed. The FTS-1's expandable cutting dies are made from the highest quality high speed steel for precision cutting and long life. The unique thread guide system used with the FTS-1 is specially designed to allow the metal chips and shavings that result during use to fall completely through the guide, preventing damage to the fork threads and the tool. The FTS-1 includes die handles, 1" x 24 tpi cutting die (Part #606), and 1" cutting guide (Part #610). 1-1/8" x 26 die (Part #607), 1-1/4" x 26 die (Part #608), 1-1/8" guide (Part #611), and 1-1/4" guide (Part #612) are available as accessories. Die handles fit all three sizes of dies and guides.



### HTR-1B Head Tube Reaming and Facing Set

HTR-1B Includes 33.8mm reamer in place of 30.0 reamer.

### HTR-1 Head Tube Reaming and Facing Set

Proper frame preparation is very important. The HTR-1 combines reaming and facing of the head tube to create a perfect fit for most sizes of head cups. The HTR-1 comes complete with a 30.0mm reamer, and four different size pilots, (29.8mm, 30.0mm, 33.8mm, and 36.8mm). There are cases when a reamer is required to clean out or increase the diameter of the head tube. Most times however, facing of the head tube for good cup fit is the objective. In this case, reaming is not necessary and the pilots can be used in place of the reamers to keep the tool straight and create a faced head tube. The unique part of the HTR-1 is the quick-release, quick-adjust feature. The bottom portion can slide off and on easily without the long threading process. This portion of the tool can still be fine tuned while in use. The tapered centering cone unit rides on a bearing for extra smooth operation. All cutting surfaces are top quality and extra sharp.

### HHP-2 Bearing Cup Press

The HHP-2 accurately aligns and presses 1", 1-1/8", 1-1/4", and 1.5" headset cups. In addition, it presses cartridge bearings and cups into one-piece bottom bracket shells and holds fixed cup wrenches firmly in place when removing or installing adjustable-type bottom brackets. Features a quick-release design for fast tool installation and removal, extra long (30cm) handles for superior leverage, and stepped bushings for precise cup alignment.



### 530-2 Step Bushing Cup Adaptors

Included with HHP-2, also available in pairs

### Additional Reamers and Facers Available For Use With HTR-1:

**751** 30.0 mm Reamer. Reams head tubes using 1" headsets.

**754** 33.8 mm Reamer. Reams head tubes using 1-1/8" headsets.

**755** 36.8 mm Reamer. Reams head tubes using 1-1/4" headsets.

**769** Head Tube Reamer Extension. Extends reaming depth of 751, 754 and 755 Reamers up to 27mm for head tubes using deep insertion headset cups.

**690** Facing Cutter. Faces head tubes using 1", 1-1/8", and 1-1/4" headsets.

**690-XL** Facing Cutter. Faces head tubes using "low profile" (integrated with cups) headsets, such as Cane Creek Zero Stack and others. Used with 768 Pilot and 750 Centering Cone Adaptor.

**756S** Reaming and Facing Cutters. Reams and faces head tubes using "integrated" headsets with a 41mm bearing and 45 degree angular contact, such as Cane Creek IS and others. Includes upper and lower cutters. Used with 750 Centering Cone Adaptor.

**758** Reaming and Facing Cutter. Reams and faces head tubes using "OnePointFive" headsets. Used with 750 Centering Cone Adaptor.

**761S** Reaming and Facing Cutters. Reams and faces head tubes using "integrated" headsets with a 42mm bearing and 45 degree angular contact, such as Campagnolo and others. Includes upper and lower cutters. Used with 750 Centering Cone Adaptor.

**768** 43.8 mm Pilot. Required when facing head tubes using "low profile" (integrated with cups) headsets, such as Cane Creek Zero Stack and others. Used with 690XL Facing Cutter and 750 Centering Cone Adaptor.

**750** Centering Cone Adaptor. Adapts centering cone on HTR-1 for use on "low profile", "integrated", and "OnePointFive" headsets.

### Tech Note

Park Tool bottom bracket and headset cutting facers, reamers and taps are made from high-speed tool steel. Apply generous amount of machining cutting fluid, such as Park Tool CF-1, often during use. Do not allow cutting tools to bang or strike other tools, as this may damage cutting surface, and keep cutting tools clean. With use, the cutting edge will dull and require re-sharpening. While there are many variables that play a role in how long a cutting tool will stay sharp (e.g. technique used, amount and type of lubrication used, type of material being machined, etc.), in general, have the tools re-sharpened once a year. Tools can be re-sharpened by The Tool Grinder (805.546.1331), a service that specializes in sharpening cutting tools for the bike industry, or by a local industrial tool grinding company.





### SG-6 Threadless Saw Guide

The SG-6 Threadless Saw Guide ensures a straight, clean cut on 1", 1-1/8", and 1-1/4" threadless forks. Simply clamp the SG-6 guide onto the fork and cut, letting the SG-6 guide the hacksaw blade. The SG-6's non-scratching composite body incorporates steel threads and a steel reinforcing plate to withstand the rigors of heavy shop use.

### CF-1 Park Tool Cutting Fluid

The use of cutting oil or cutting fluid is extremely important when performing any cutting, tapping, facing, or reaming operation. Park Tool Cutting Fluid is a high quality, environmentally safe cutting fluid that extends tool life and makes any frame prep job easier and safer. Park Tool Cutting Fluid can effectively be used on all metals (except magnesium). 8 oz. (237 mL) bottle.



### SG-1 Threaded Saw Guides

Cut any fork quickly and easily with these handy fork stack cutting guides. Heat treated for long life, each guide cleans the freshly cut threads upon removal so headset parts install easily. Cut as little as 1mm from any fork.

- SG-1 1" cutting guide
- SG-2 1-1/8" cutting guide



### TNS-1 Threadless Nut Setter

The Threadless Nut Setter is used to install the star-fangled nut found on 1" and 1-1/8" threadless headset systems. Thread the nut onto the TNS, insert into the fork stack, and tap it in with a hammer. Sets the star-fangled nut to 15mm and keeps it straight. Long handle helps prevent pinched fingers.

Uses Part #822 Replacement Set Screws.



### RT-1 Head Cup Remover

The Park Tool Head Cup Remover makes headset cup removal easy. The tool is pulled through the frame until the flared ends snap in behind the cup. A blow on the tool head removes the cup. Fits 1", 1-1/8" and 1-1/4" headsets. Strong, heat treated alloy steel with nickel finish.





### CRP-1 Universal Crown Race Puller

The CRP-1 is a precision tool for quickly and easily removing the headset crown race from the crown race seat of the fork. Universal design works with 1", 1-1/8", 1-1/4" and 1.5 crown race/fork (suspension or rigid) combinations. To use, simply turn the two small T-handles to press the thin-edged wedges under the crown race. Then turn the large T-handle to completely pull the crown race from the fork. No more hammer and punch! All steel construction for long life.

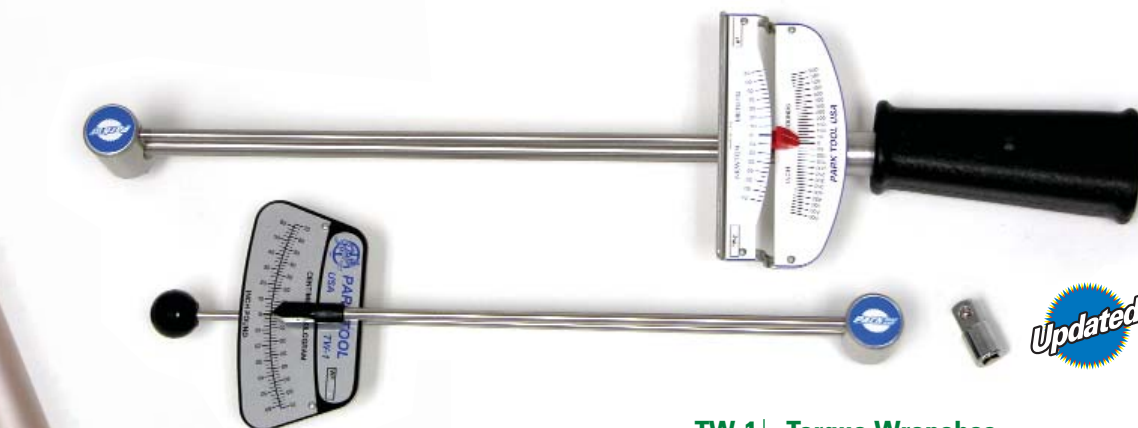
Replaceable wedges (part #1170-2, two required).



#838

### Crown Race Setting Ring

Used in conjunction with the CRS-1 Crown Race Setting System to install the special crown race used on 1-1/8" and 1-1/16" Klein Aeros and Trek Superlight Composite Forks.



### TW-1 Torque Wrenches TW-2

Because torque specifications are now given for most parts and accessories, Park Tool offers two tough, accurate torque wrenches. The TW-1 is 1/4" drive (includes 3/8" adaptor) and ranges from 0-60 inch pounds with compatible metric equivalents. The TW-2 is 3/8" drive and ranges from 0-600 inch pounds.

**Updated**

### Repair Help

*Recommended torque settings  
for bicycle components:*

[www.parktool.com/repair\\_help/torque.shtml](http://www.parktool.com/repair_help/torque.shtml)



### CRS-1 Crown Race Setting System

We've taken a fresh new approach to crown race installation. Traditionally, a mechanic would slam a tube down onto the bearing surface to "set" the race in place. The CRS-1 offers a different approach that offers faster, safer, and more precise installation. The bearing surface is spared a direct hit by using different inserts to ensure proper fit on the race. Choose the correct insert then slide the tube over the fork tube and into the top end of the insert. Using a hammer, tap firmly on the end cap of the tube and seat the race into its proper place safely and accurately. The CRS-1 set includes one universal setting tube, three 1" inserts, and three 1-1/8" inserts.



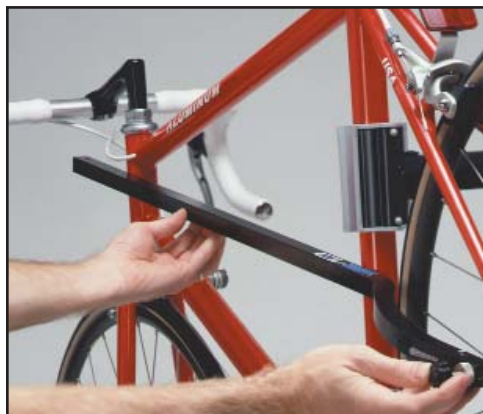


## DAG-1 Derailleur Hanger Alignment Gauge

The Derailleur Hanger Alignment Gauge can help solve a multitude of derailleur shifting problems, most notably with index shifting systems. This tool is extremely steady in operation and is simple to use. The tool threads directly into the derailleur hanger. The gauge bar holds a gauge which marks the distance to the wheel. The gauge then is rotated with the wheel to the 3, 6, 9, and 12 o'clock positions, noting any differences in measurements. The alignment of the derailleur hanger is accomplished by applying pressure to the tool's arm. The results can be checked instantly. The DAG-1 is made of heavy-gauge steel and is chrome plated for long shop life.

## CLG-2 Chainline Gauge

The Park Tool Chainline Gauge is a terrific help in diagnosing poor shifting or erratic chain characteristics. Use of this tool can help isolate the causes which range from an improperly installed rear wheel, misaligned dropouts, incorrectly dished wheels, bent rear triangle, or bottom bracket problems. The Chainline Gauge is accurate and simple to use.



## FAG-2 Frame Alignment Gauge

Many bicycles will not shift or track properly because the front and rear wheels are not in line with the frame. If these conditions still exist after wheel and derailleur adjustments, the seat stays, chain stays, and rear drop-outs of the frame may be misaligned. For years the accepted method to check the alignment of the rear drop-out was to run a string on either side. This method does work to some extent. However, it is not accurate because the measurement is not taken at the drop-out. With the Park Tool Frame Alignment Gauge the alignment can be checked quickly and accurately at the drop-out. Retractable pointer to fit all sizes and types of bicycles.



## KS-1 Kickstand Tool

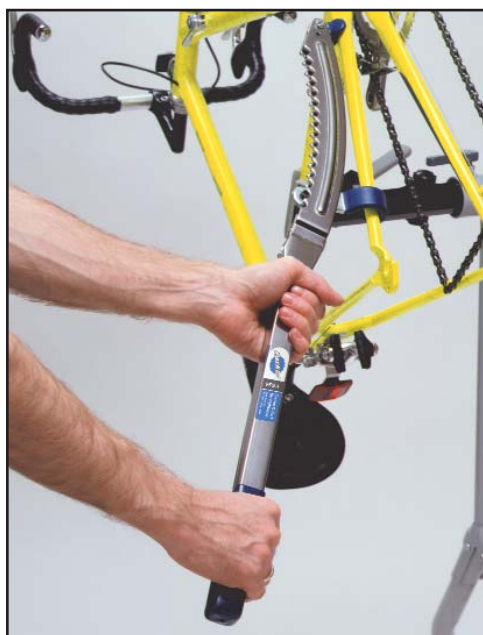
The KS-1 quickly and easily removes and installs Schwinn-type built-in kickstands (also called "Sprague" kickstands).

## Frame and Fork Straightening Tools

This section is devoted to our frame and fork straightening tools. Many bicycles cannot be properly repaired or adjusted because their frames and forks are no longer true. With the high cost of new bicycles and replacement frames and forks, straightening can be a viable, cost-effective alternative. Many damaged bicycles can be safely straightened and repaired when the proper tools are used by skilled mechanics. When these tools are used to straighten and assure the alignment of a frame or fork, the repaired bicycle will be safer to ride.

### CAUTION

During any repair, safety should always come first. Customers should be advised prior to straightening that not all bicycles can be repaired. After alignment, all frames and forks should be carefully inspected for cracks or kinked tubes. A customer should be advised when certain conditions render a bicycle unsafe to ride.



### FFS-1 Frame and Fork Straightener

The Park Tool Frame and Fork Straightener is a versatile and productive tool. The open hook design enables it to straighten not only frames and forks, but also cranks and handlebars. Vinyl coating on the hook and on the fulcrum pad protects painted surfaces. The hook has over 8" of adjustment. Reinforced to prevent flexing.



### FFG-1 Frame and Fork End Alignment Gauge Set

There are occasions, even on new bikes, when the frame and fork drop-outs are not parallel, creating bent axles or skewers, poor tracking, and even problem shifting. The Park Tool Frame and Fork Alignment Gauge Set was designed to align the drop-outs easily without elaborate fixtures. They quickly show whether the drop-outs are parallel and produce plenty of leverage to straighten them. These Park Tool gauges adjust to compensate for various hub widths. A caliper is provided for checking this dimension.

### Tech Note

*The FFG-1 is designed for dropouts using 10mm or smaller axles. Attempting to bend oversized axle dropouts may damage the tool.*





## PDR-4

### Park Tool Display System

"The Right Tool for the Job". Over 4,000 bike shop owners worldwide rely on Park Tool Displays to help sell tools. And now, the newly updated PDR-4 Park Tool Display Center makes it easier than ever. A brand new mix of tools for maintaining most bikes, attractive new packaging and graphics, a copy of our Home Mechanic Tool Selection Guide, and a versatile display that can be easily rolled from one location in the shop to another. It all adds up to create an impressive, well-defined tool and information center that sends your customers the message they've come to the right place for all their bicycle tool needs. If you're serious about selling bicycle tools, the updated PDR-4 Park Tool Display System is the right tool for the job.



## PDR-5

### Mini Wall Display

If you don't have the space for a full display system, check out the PDR-5 Mini Wall Display. It's a great way to get your feet wet and to discover how profitable selling tools can be.



### STL-2 Rolling, Adjustable Height Shop Stool

The new STL-2 is ideal for quickly maneuvering around the bike while making adjustments. It has an adjustable gas shock with 5" (13cm) of travel, smooth-rolling wheels, and a swiveling seat with a three-color Park Tool Logo. Adjusts in height from 17" to 22" (44cm to 57cm).



### STL-1 Shop Stool

The STL-1 Park Tool Shop Stool has chrome-plated steel legs and a comfortable padded seat with a three-color Park Tool Logo. The seat swivels 360 degrees and is positioned at a height of 32" (81cm)—the perfect height for wheel truing or other work at a bench or counter. Great in the shop or on the sales floor.



### SA-1 Shop Apron

Protect your clothes and gain the advantage of large pouch pockets whenever you work in the shop. Our full-length, shop quality aprons are made of a heavy 7-ounce poly cotton twill for comfort and durability. Navy blue with white embroidered Park Tool logo.



### SA-3 Heavy Duty Shop Apron

Once you try on this apron, there's no going back to standard aprons. The SA-3 is made from heavy 10 oz. cotton canvas and has two rows of bar tack reinforced pockets for stashing pens, parts, tools, etc. The special crossback design removes pressure from the neck for all day comfort. A nylon quick release makes the apron easy to adjust and take off. A full 35" in length, the bottom 7" of the apron can be snapped up for a custom height fit. An embroidered Park Tool logo makes the apron as good looking (even when it's dirty) as it is functional.



### TP#2 Toilet Paper Holder

The TP#2 features a TIG welded steel frame, ball bearing headset, chrome finish, and a quick release skewer for fast roll changes. The perfect accessory for the home or shop bathroom.

### MS-1 Mechanic's Shirt

The MS-1 Mechanic's Shirt is an oversized version of the traditional mechanic's shirt. It has two pockets and is made from a wrinkle-free 65% poly/35% cotton blend for long wear and good looks. Sizes M, L, XL, and XXL.



### HAT-1 Ball Cap

Our cap features an embroidered Park Tool logo and an adjustable backstrap.

### TSL-1B T-Shirt

Our cotton T-shirts are pre-shrunk and feature an extra large, two-color logo. Sizes M, L, XL, and XXL.

### BLT-1 Spoke Wrench Belt

With a buckle modeled after our world famous spoke wrench design, the new BLT-1 Spoke Wrench Belt is the perfect compliment to the wardrobe of any cyclist or mechanic. The buckle is made from investment cast stainless steel and the belt is woven nylon. One size fits waists up to 48".

### PZT-1 Big Wheel™ Pizza Tool®

What bike shop would be complete without a good pizza cutter? The PZT-1 just happens to be a top-quality pizza cutter that looks like a high-wheeler. No hidden use, just a pizza cutter. Available only in the world famous "Park Tool Blue". Comes complete with display stand and gift box.

### PNT-1 Pint Glass

Featuring a three color Park Tool logo, the PNT-1 Pint Glass is made from heavyweight, dishwasher safe glass.

### MUG-1 Coffee Mug

There's nothing better than a steaming cup of java to start your day. And there's no better place to put that java than in a black ceramic Park Tool mug. Both sides of the mug feature the Park Tool logo in blue and white.



### PC-1 PC-2 Shop Clock

These two wall clocks will dress up any shop. The PC-1 features a real rubber tire, chrome rim, two color logo, quartz mechanism, and back-lit face (110v outlet and AA battery required.) The PC-2 is an unlit version. It uses the same face, tire, rim, and mechanism - just no light.



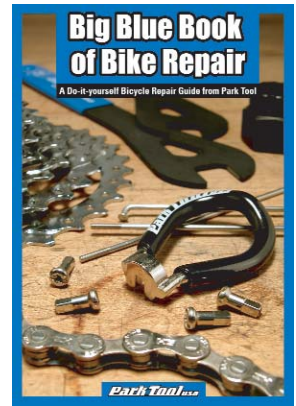
# New for 2005



Synthetic Blend Chain Lube with Teflon®  
**CL-1**  
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Truing Stand Upright Extensions  
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Heavy Duty Axle and Pedal Vice  
**AV-4**  
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Park Tool Company  
6 Long Lake Rd.  
St. Paul, MN 55115-6824 USA  
Tel: (651) 777.6868 Fax: (651) 777.5559

PARK TOOL WORKSTATION



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