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- › DURATECH /
- › DURATECH Bike Repair Kit Instruction Manual

DURATECH 35pc Bike Repair Kit

DURATECH Bike Repair Kit Instruction Manual

Model: 35pc Bike Repair Kit

PRODUCT OVERVIEW

The DURATECH 35-piece bike repair kit is a comprehensive set designed for daily bike maintenance, repairs, and upgrades. It is suitable for most types of bicycles, including mountain bikes and road bikes. The kit comes in a durable carry case, ensuring tools are organized and protected.



Image: Overview of the DURATECH 35-piece bike repair kit, showcasing all included tools and the robust blue carry case.

INCLUDED COMPONENTS

This kit includes a wide range of tools for various bicycle repair tasks. All tools are constructed with premium carbon steel and high-quality materials for durability.

- Chain Rivet Extractor
- Hex key wrench (2.2/2.5/3/4/5/6mm)
- Chain Wear Indicator
- Crank Extractor
- Tire lever (2x)
- Double head screwdriver (Flat/Phillips)
- 3mm Flat-head screwdriver
- 8mm Hex key wrench

- Square adaptor
- 15mm Pedal wrench (14/15mm socket)
- Freewheel Turner
- Bottom Bracket Wrench
- Hub cone spanner (13/14mm)
- Hub cone spanner (15/16mm)
- Chain hook
- Dust cap wrench
- Spoke wrench
- Lock Ring Remover (axle post)
- Cartridge Bottom Bracket Tool
- Chain ring nut wrench
- T25 Ring spanner
- Patch kit (6x tire patch, 1x file)
- Plastic Carry Box



35 IN 1 COMPREHENSIVE BIKE TOOL

- 1xChain Rivet Extractor
- 6xHex key wrench (2./2.5/3/4/5/6mm)
- 1xChain Wear Indicator
- 1xCrank Extractor
- 2xTire Lever
- 1xFlat/Philips screwdriver
- 1x3mm Flat-head screwdriver
- 1x8mm Hex key wrench
- 1x Square adaptor
- 1x15mm Pedal wrench (14/15mm socket)
- 1x Freewheel Turner
- 1xBottom Bracket Wrench
- 1xHub cone spanner 13/14/mm
- 1xHub cone spanner 15/16mm
- 1xChain hook
- 1xDust cap wrench
- 1xSpoke wrench
- 1xLock Ring Remover (axle post)
- 1xCartridge Bottom Bracket Tool
- 1xChain ring nut wrench
- 1xT25 Ring spanner
- 1xPatch kit (6xtire patch、 1xfile)
- 1xPlastic box



Image: Detailed view of the kit's contents, highlighting the 35 individual tools and their designated slots within the carry case.

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Tire Repair (Patch Kit & Tire Levers)

1. **Remove Tire:** Use the tire levers to carefully pry the tire bead off the rim and remove the inner tube.
2. **Locate Puncture:** Inflate the inner tube slightly and submerge it in water to find the leak, or listen for escaping air. Mark the puncture.
3. **Prepare Surface:** Use the included metal file to roughen the area around the puncture. This creates a better bonding surface for the patch.
4. **Apply Patch:** Peel the backing from a tire patch and firmly press it over the prepared area, ensuring no air bubbles are trapped. Hold for 1-3 minutes.
5. **Reassemble:** Once the patch is secure, reinsert the inner tube into the tire and remount the tire onto the rim using the tire levers. Inflate to the recommended pressure.



EMERGENCY TIRE REPAIR KIT



1. Pry up the tire with tire levers, remove the inner tube



2. Polish the inner tube with file



3. Paste the patch



4. Press it for 1~3 minutes

Image: Visual steps for repairing a flat tire, demonstrating the use of tire levers, file, and adhesive patches.

Chain Maintenance (Chain Rivet Extractor & Chain Wear Indicator)

- **Chain Wear Check:** Use the Chain Wear Indicator by placing its teeth onto the chain. If the indicator fully drops into the chain, it suggests the chain is worn and may need replacement.

- **Chain Removal/Installation:** The Chain Rivet Extractor is used to push out or insert chain pins for chain repair or replacement. Place the chain link into the tool's slot, align the pin, and turn the handle to push the pin through.

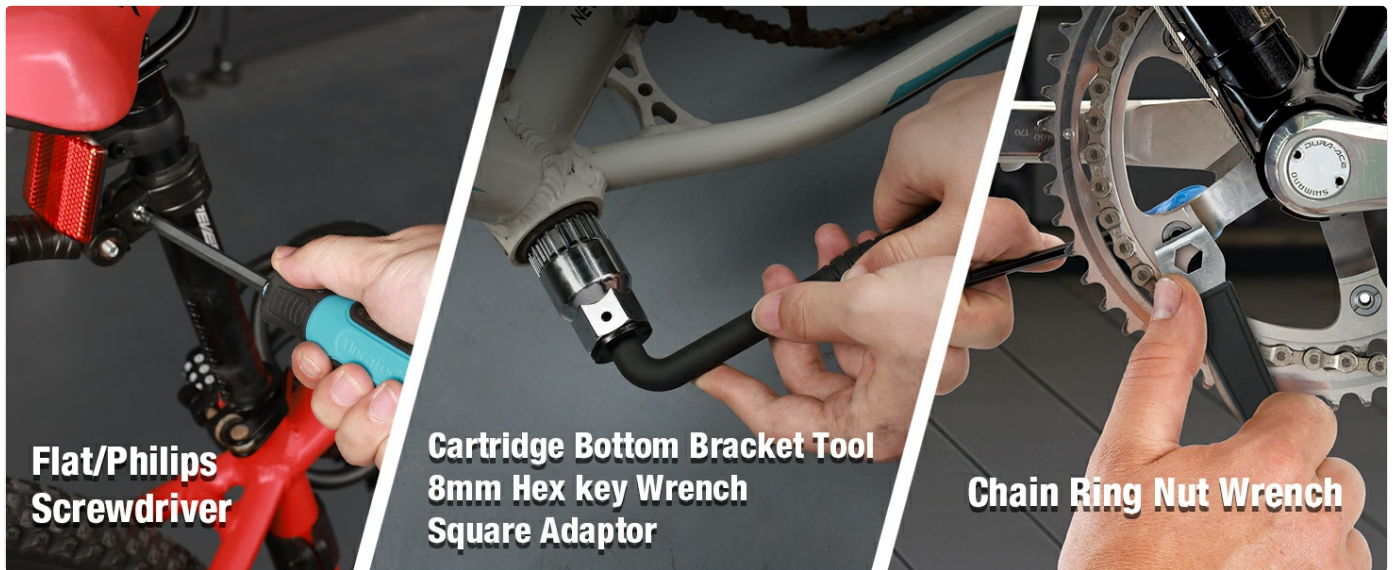


Image: Demonstrations of using the chain wear indicator and chain rivet extractor for chain maintenance.

Freewheel/Cassette Removal (Freewheel Turner & Lock Ring Remover)

- **Freewheel Removal:** Use the Freewheel Turner to hold the freewheel in place while using the Lock Ring Remover to unscrew the lock ring. This combination is essential for removing the freewheel from the hub.

Your browser does not support the video tag.

Video: An official demonstration of various tools from the DURATECH bike repair kit in use, including the freewheel turner and lock ring remover.

Crank and Bottom Bracket Maintenance

- **Crank Extractor:** Used to remove the crank arms from the bottom bracket spindle.
- **Bottom Bracket Wrench & Cartridge Bottom Bracket Tool:** These tools are used in conjunction to remove and install cartridge-style bottom brackets, which are crucial for smooth pedal rotation.
- **Dust Cap Wrench:** For removing or tightening the dust caps on crank arms.



Image: Demonstrations of using the cartridge bottom bracket tool and dust cap wrench for crank and bottom bracket servicing.

General Adjustments and Assembly

- **Hex Key Wrenches:** Essential for tightening or loosening bolts on various bike components like handlebars, seat posts, and brake levers.
- **Screwdrivers (Flat/Phillips):** For general adjustments on derailleurs, brake calipers, and other components requiring screwdriver access.
- **Spoke Wrench:** Used to adjust spoke tension, which is vital for maintaining wheel true and integrity.
- **Pedal Wrench:** Specifically designed for installing and removing pedals.
- **Hub Cone Spanners:** For adjusting and servicing wheel hubs.

MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your DURATECH bike repair tools, follow these maintenance guidelines:

- **Cleaning:** After each use, wipe down tools with a clean, dry cloth to remove dirt, grease, and moisture. For stubborn grime, a mild degreaser can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a light coat of machine oil to moving parts of tools like the Chain Rivet Extractor to ensure smooth operation and prevent rust.
- **Storage:** Always return tools to their designated slots in the plastic carry case after use. Store the case in a dry environment, away from extreme temperatures and direct sunlight, to prevent corrosion and material degradation.
- **Inspection:** Regularly inspect tools for any signs of wear, damage, or corrosion. Replace any damaged tools to ensure safe and effective repairs.

TROUBLESHOOTING COMMON ISSUES

While this kit provides essential tools, some bike repairs can be complex. Here are tips for common issues:

- **Stuck Bolts/Nuts:** If a bolt or nut is difficult to loosen, apply penetrating oil and allow it to soak for a few minutes. Ensure you are using the correct size tool to avoid stripping the fastener.
- **Chain Rivet Extractor Pin Bending:** Ensure the chain is properly seated in the tool and the pin is aligned before applying force. Do not over-tighten.
- **Tire Patch Not Holding:** Ensure the inner tube surface was thoroughly cleaned and roughened with the file before applying the patch. Apply firm, even pressure for the recommended time.
- **Tools Slipping:** Always ensure tools are fully engaged with the fastener. If a tool slips, it may be the wrong size or worn. Replace worn tools.

For advanced repairs or if you are unsure about a procedure, consult a professional bicycle mechanic or a detailed bicycle repair manual specific to your bike's components.

SPECIFICATIONS

Feature	Detail
Brand Name	DURATECH
Model Style	35pc Bike Repair Kit
Item Package Dimensions (L x W x H)	14.13 x 10.51 x 3.39 inches
Package Weight	2.9 Kilograms
Material	Premium Carbon Steel, Chromium-vanadium steel (for certain tools)

Manufacturer	HANZGHOU GREATSTAR INDUSTRIAL CO.LTD
Date First Available	December 4, 2023

SUPPORT AND ADDITIONAL RESOURCES

For further assistance or to explore other DURATECH products, please visit the official DURATECH store or contact customer support. While this manual covers the basic usage and care of your bike repair kit, many online resources and local bike shops can provide more in-depth guidance for specific repairs.

DURATECH Store: [Visit the DURATECH Store on Amazon](#)