Park Tool CC-3.2

Park Tool Chain Wear Indicator CC-3.2 User Manual

Model: CC-3.2

Introduction

The Park Tool Chain Wear Indicator CC-3.2 is a specialized tool designed to measure the elongation, or 'stretch', of a bicycle chain. A chain that has stretched beyond acceptable limits can lead to poor shifting performance and significantly accelerate the wear of more expensive drivetrain components such as cogs and chainrings. The CC-3.2 provides a simple, accurate 'go-no go' indication for chain replacement, helping to maintain optimal drivetrain efficiency and longevity.

Image: The Park Tool CC-3.2 Chain Wear Indicator, a precision-machined metal tool with measurement markings.

Product Features

- Quickly checks chain stretch and wear to determine if a chain requires replacement.
- Constructed from precision, laser-cut steel for durability and accuracy.
- Compatible with most derailleur and single-speed chains, including 9-speed and 10-speed systems.
- Features permanent measurement markings for .5% and .75% chain elongation.

Setup

The Park Tool CC-3.2 Chain Wear Indicator requires no assembly or complex setup. It is a standalone tool ready for immediate use upon unboxing. Ensure the tool is clean and free of debris before use to ensure accurate readings.

Operating Instructions

Understanding Chain Wear

Bicycle chains wear primarily through the elongation of the chain's pitch, caused by friction and wear between the pins and rollers. This elongation is commonly referred to as 'chain stretch'. When a chain stretches, the distance between its links increases, causing it to no longer mesh perfectly with the teeth of the chainrings and cogs. This leads to inefficient power transfer, poor shifting, and accelerated wear on the entire drivetrain.
The CC-3.2 measures two critical wear points:

- **0.5% Wear:** This indicates a moderate level of wear. For most 10-speed and 11-speed chains, replacement is recommended at or before this point to maximize the lifespan of your cassette and chainrings.
- **0.75% Wear:** This indicates significant wear. For 9-speed and older chains, replacement is generally recommended at this point. Continuing to use a chain beyond this wear level will rapidly damage your cassette and chainrings, potentially requiring their replacement along with the chain.

Using the CC-3.2 Indicator

1. **Locate the Chain:** Position the bicycle so that you can easily access the chain. It is not necessary to remove the chain from the bicycle.
2. **Identify Measurement Points:** The CC-3.2 has two ends, each with a different measurement marking: 0.5% and 0.75%.
3. **Insert the Tool (0.5% side):** Hook the curved end of the tool (marked 0.5%) into a chain roller. Allow the tool to rest on the chain.
4. **Check for Drop-in:** Attempt to insert the other end of the tool into a chain roller further down the chain. If the 0.5% end of the tool drops completely into the chain, it indicates that the chain has stretched by 0.5% or more.
5. **Insert the Tool (0.75% side):** If the 0.5% end drops in, flip the tool over and repeat the process with the 0.75% end.
6. **Interpret Results:**
    - If **neither** end of the tool drops into the chain: The chain is within acceptable wear limits.
    - If the **0.5% end drops in, but the 0.75% end does not** The chain has reached 0.5% wear. Consider replacing the chain, especially for 10-speed or 11-speed systems.
    - If **both the 0.5% and 0.75% ends drop in** The chain has reached 0.75% wear. Immediate chain replacement is highly recommended to prevent damage to your cassette and chainrings.

Image: The Park Tool CC-3.2 Chain Wear Indicator positioned on a bicycle chain to check for elongation. One end is hooked into a chain roller, and the other end is being lowered to see if it fits into a subsequent roller.

Regularly checking your chain wear with the CC-3.2 will help you replace your chain at the optimal time, saving you money on more expensive drivetrain components in the long run.

Maintenance

The Park Tool CC-3.2 Chain Wear Indicator is a low-maintenance tool. To ensure its longevity and accuracy:

- **Cleaning:** After each use, wipe the tool clean with a dry cloth to remove any grease, dirt, or chain lubricant.
- **Storage:** Store the tool in a dry place, away from excessive moisture or corrosive materials, to prevent rust.
- **Inspection:** Periodically inspect the tool for any signs of damage, bending, or wear that could affect its accuracy. If the tool appears damaged, it should be replaced.

Troubleshooting

The CC-3.2 is a simple mechanical tool, and issues are rare. Most 'troubleshooting' involves correct usage:

- **Tool doesn't fit into chain:** Ensure you are hooking the tool into the rollers of the chain, not the side plates. The chain must be relatively clean for the tool to seat properly.
- **Inconsistent readings:** Ensure the chain is under some tension (e.g., on the bike, not slack) when measuring. Also, ensure the tool is fully seated in the first roller before attempting to drop the other end.
- **Tool seems inaccurate:** While the CC-3.2 is highly accurate for its intended purpose, extreme chain dirt or damage could interfere. Ensure the chain is reasonably clean. If you suspect the tool itself is damaged, compare it to a new CC-3.2 or consult Park Tool support.

Specifications

Brand	Park Tool
Model	CC-3.2
Part Number	CC-3C/25
Material	Alloy Steel
Item Weight	3.2 ounces (approx. 90.7 grams)
Dimensions (L x W x H)	Approx. 10.87 x 3.23 x 0.16 inches (packaging)
Country of Origin	United States
UPC	763477001337

Warranty Information

Park Tool products are manufactured to high standards and are designed for durability. Specific warranty details may vary by region and retailer. Please retain your proof of purchase. For the most accurate and up-to-date warranty information, refer to the documentation included with your purchase or visit the official Park Tool website.

Support

For technical assistance, product inquiries, or further information regarding the Park Tool Chain Wear Indicator CC-3.2, please contact Park Tool directly:

- **Manufacturer:** Park Tool
- **Website:** www.parktool.com (Please check the website for contact forms, email addresses, or phone numbers.)

No official product videos were available from the seller for embedding in this manual.