KMC HL810

KMC HL810 1-Speed Chain Instruction Manual

Model: HL810

Brand: KMC

Introduction

This manual provides essential instructions for the proper installation, operation, and maintenance of your KMC HL810 1-Speed Chain. Adhering to these guidelines will ensure optimal performance and longevity of your bicycle chain. Please read this manual thoroughly before installation and use.

Product Overview

The KMC HL810 is a durable 1-speed bicycle chain featuring a half-link design, which allows for precise chain length adjustment, particularly beneficial for single-speed setups. It is constructed from alloy steel and designed for robust performance.

- **Design:** Half link for fine-tuning chain length.
- **Length:** 100 links.
- **Dimensions:** 1/2" x 3/32".
- **Material:** Alloy Steel.
- **Compatibility:** Designed for 1-speed drivetrains and compatible with various systems including Campagnolo, Shimano, and Sram.

Figure 1: Close-up of the KMC HL810 chain's half-link design and gold finish. This image highlights the individual links and pins.

Setup and Installation

Proper installation is crucial for the performance and safety of your chain. If you are unsure about any step, consult a professional bicycle mechanic.

1. **Determine Correct Chain Length:**

   For single-speed bicycles, wrap the chain around the largest chainring and the largest cog, bypassing the derailleur (if present). Pull the ends taut and add two full links (or one half-link and one full link for half-link chains) to this length. The half-link design of the HL810 allows for finer adjustments to achieve optimal tension without a tensioner.

2. **Remove Old Chain (if applicable):**

   Use a chain tool to break the old chain. Ensure the chain is clean before handling.

3. **Size the New Chain:**

   Using a chain tool, carefully remove excess links from your KMC HL810 chain to match the determined length. Due to its half-link design, you can achieve very precise lengths. **Caution:** The connecting pin (often referred to as a "bullet pin") is designed for a single, secure installation. Improper installation or re-use of a connecting pin can lead to chain failure. Ensure the pin is pressed in squarely and fully seated.

4. **Install the New Chain:**

   Thread the new chain through your bicycle's drivetrain, ensuring it passes correctly over the chainring and cog.

5. **Connect the Chain:**

   Align the ends of the chain and use the provided connecting pin or a master link (if using one) to join them. For connecting pins, use a chain tool to press the pin through the outer plate and into the inner

plate, ensuring it is flush on both sides. Break off the guide pin if applicable. Flex the newly connected link to ensure it moves freely.

6. **Check Chain Tension:**

   For single-speed bikes, the chain should have a small amount of slack (approximately 1/2 inch or 1.25 cm of vertical movement) at its tightest point. Adjust wheel position in the dropouts if necessary to achieve proper tension.

Figure 2: The KMC HL810 1-Speed Chain laid out, showing its full length and consistent gold finish. This image provides a perspective of the entire chain.

Operating Instructions

The KMC HL810 chain is designed for single-speed bicycle applications. Once properly installed and tensioned, it requires no further operational adjustments during riding. Focus on regular maintenance to ensure smooth and reliable performance.

Maintenance

Regular maintenance extends the life of your chain and ensures efficient power transfer.

- **Cleaning:** Clean your chain regularly, especially after riding in wet or dirty conditions. Use a dedicated chain cleaner or a mild degreaser and a brush. Rinse thoroughly and dry completely.
- **Lubrication:** After cleaning and drying, apply a high-quality bicycle chain lubricant to each roller. Allow the lubricant to penetrate, then wipe off any excess to prevent dirt attraction.
- **Inspection:** Periodically inspect the chain for signs of wear, such as stretched links, bent plates, or corrosion. Check for stiff links by flexing the chain. A chain wear indicator tool can help determine when replacement is necessary.
- **Chain Tension:** Regularly check chain tension. If it becomes too loose, adjust the wheel position to restore proper tension.

Troubleshooting

Problem	Possible Cause	Solution
Chain skipping or slipping	Worn chain or cogs; incorrect chain tension.	Inspect chain and cogs for wear; replace if necessary. Adjust chain tension.
Chain noise (squeaking, grinding)	Lack of lubrication; dirt/debris; stiff links.	Clean and lubricate the chain. Inspect for and free any stiff links.
Chain breaks	Improperly installed connecting pin; excessive wear; manufacturing defect.	Ensure connecting pin is correctly installed and fully seated. Replace worn chain. If new and breaks, contact KMC support.

Problem	Possible Cause	Solution
Chain too short	Incorrect initial length measurement.	A new chain is required. Carefully re-measure and size the replacement chain.

Specifications

Feature	Detail
Model	HL810
Brand	KMC
Chain Type	1-Speed, Half Link
Dimensions	1/2" x 3/32"
Number of Links	100 links
Material	Alloy Steel
Load Capacity (Tensile)	1E+2 lbf
Specification Met	ANSI B29.1
UPC	766759081010

Warranty and Support

For specific warranty information regarding your KMC HL810 1-Speed Chain, please refer to the documentation provided at the time of purchase or contact KMC directly. Warranty terms typically cover manufacturing defects but do not cover wear and tear from normal use, improper installation, or lack of maintenance.
For further assistance or technical support, please visit the official KMC website or contact your authorized KMC dealer. You can also visit the KMC Store on Amazon for more product information.