

## CCLIFE 5315

# CCLIFE 21-Piece 1/2-inch Drive Socket Set

MODEL: 5315

## 1. Introduction

This instruction manual provides essential information for the safe and effective use of your CCLIFE 21-piece 1/2-inch drive socket set. This set is designed for universal application with various fastener types, including six-point and twelve-point, in both metric and imperial sizes, thanks to its special Gear Lock profile. Constructed from durable chrome-vanadium steel with a matt chrome finish, these sockets are built for reliability.

Please read this manual thoroughly before using the product and retain it for future reference.

## 2. Product Components

The CCLIFE 21-piece socket set includes a range of sockets designed for a 1/2-inch (12.5mm) drive. The set is housed in a robust storage case for organization and protection.



Image 2.1: Overview of the CCLIFE 21-piece socket set in its storage case.

The set includes the following metric sizes:

- 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 24mm, 27mm, 30mm, 32mm, 34mm, 36mm.

Each socket features a 12-point Gear Lock profile, allowing compatibility with six-point, twelve-point, E-Torx, and partially square fasteners. The sockets are made from chrome-vanadium steel, ensuring durability and resistance to wear.



Image 2.2: Detail of socket construction, showing chrome-vanadium steel material.



Image 2.3: Illustration of the 12-point Gear Lock profile and 1/2-inch drive mechanism.





Image 2.4: Sockets organized within the storage case.

### 3. Setup

The CCLIFE socket set is designed for immediate use with any standard 1/2-inch drive tool. No assembly is required for the sockets themselves.

1. **Select the Correct Socket:** Identify the appropriate socket size for your fastener (nut or bolt). The sizes are clearly marked on each socket.
2. **Attach to Drive Tool:** Firmly press the selected socket onto the square drive of your wrench (ratchet, torque wrench, breaker bar) or impact driver. Ensure it clicks securely into place. The anti-card slot on the socket helps maintain a secure connection.

### 4. Operating Instructions

These sockets are suitable for both manual and power tool applications, such as with torque wrenches and impact drivers.

### 1. Manual Operation (e.g., with a Torque Wrench):

- Once the socket is securely attached to your torque wrench, place the socket over the fastener.
- Ensure the socket is fully seated on the fastener to prevent stripping.
- Apply steady, controlled force to tighten or loosen the fastener according to your task's requirements.



Image 4.1: Using a socket with a torque wrench.

### 2. Power Tool Operation (e.g., with an Impact Driver):

- Attach the socket to a compatible 1/2-inch impact driver.
- Position the socket over the fastener, ensuring a snug fit.
- Operate the impact driver to quickly tighten or loosen the fastener. Exercise caution to avoid over-tightening.





Image 4.2: Using a socket with an impact driver.

The Gear Lock profile allows these sockets to grip various fastener head types, providing versatility for different applications.

## 5. Maintenance

Proper maintenance ensures the longevity and performance of your socket set.

- **Cleaning:** After each use, wipe down sockets to remove dirt, grease, and debris. A clean cloth is usually sufficient. For stubborn grime, a mild degreaser can be used, followed by thorough drying.
- **Inspection:** Regularly inspect sockets for any signs of wear, cracks, or damage. Discontinue use of any damaged sockets to prevent injury or further damage to fasteners.
- **Storage:** Always store the sockets in their original case in a dry environment to prevent rust and corrosion. Keep them away from excessive moisture and extreme temperatures.

## 6. Troubleshooting

If you encounter issues during use, consider the following:

- **Socket Slipping:** Ensure you are using the correct size socket for the fastener. The socket must be fully seated. If the fastener head is worn, the socket may slip.
- **Difficulty Attaching/Removing:** Check for any debris in the drive square of the socket or on the drive tool. Ensure the drive tool's detent ball is functioning correctly.
- **Damage to Fastener:** Always ensure the socket is fully engaged with the fastener before applying force. Using an incorrect size or applying excessive force at an angle can damage the fastener head.

## 7. Specifications

Feature	Detail
Model Number	5315
Material	Chrome-Vanadium Steel
Finish	Matt Chrome
Drive Size	1/2 inch (12.5mm)
Socket Profile	Gear Lock (12-point, compatible with 6-point, 12-point, E-Torx, partial square)
Number of Pieces	21
Metric Sizes Included	8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 24mm, 27mm, 30mm, 32mm, 34mm, 36mm
Product Dimensions (L x W x H)	25 x 18 x 6.5 cm
Product Weight	2.48 kg

## 8. Warranty Information

Specific warranty terms for the CCLIFE 21-piece socket set are typically provided by the retailer or manufacturer at the time of purchase. Please refer to your purchase documentation or contact the seller for detailed warranty information.

## 9. Support

For technical assistance, product inquiries, or to report any issues, please contact your point of purchase or the CCLIFE customer support. Contact details can usually be found on the product packaging or the seller's website.

