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› CCLIFE 2pcs Swivel Magnetic Spark Plug Socket User Manual (14mm/16mm, 97mm Length)

## CCLIFE 5311-FBA

# CCLIFE Swivel Magnetic Spark Plug Socket Set

Models: 14mm, 16mm | Length: 97mm | Drive: 3/8"

## 1. PRODUCT OVERVIEW

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The CCLIFE Swivel Magnetic Spark Plug Socket Set is designed for efficient and secure removal and installation of spark plugs in various automotive applications. This set includes two sockets, 14mm and 16mm, each featuring a 3/8-inch drive, a 360-degree swivel head, and a magnetic interior for enhanced functionality. Constructed from durable Chrome Vanadium (CR-V) steel with a matte nickel finish, these sockets offer corrosion resistance and a secure grip.



Image 1.1: The CCLIFE 14mm and 16mm Swivel Magnetic Spark Plug Sockets.

## 2. SAFETY INFORMATION

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Always prioritize safety when working with tools and automotive components. Failure to follow safety guidelines can result in injury or damage to property.

- **Eye Protection:** Always wear ANSI-approved safety glasses or goggles to protect against flying debris.
- **Hand Protection:** Wear appropriate work gloves to protect hands from cuts, abrasions, and chemicals.
- **Vehicle Safety:** Ensure the vehicle is turned off, cooled down, and properly secured (e.g., parking brake engaged, wheels chocked) before beginning any work. Disconnect the battery if necessary.
- **Tool Condition:** Inspect sockets and drive tools for damage or wear before each use. Do not use damaged tools.
- **Proper Use:** Use the correct size socket for the spark plug to prevent rounding or damage. Do not use excessive force.
- **Clear Workspace:** Keep your work area clean, well-lit, and free of obstructions.

## 3. PRODUCT COMPONENTS AND DIMENSIONS

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Each socket in the set features a robust design optimized for spark plug service.

- **Material:** Chrome Vanadium (CR-V) Steel for strength and durability.
- **Finish:** Matte Nickel Plating for corrosion resistance and an anti-slip surface.
- **Drive Size:** 3/8-inch square drive for compatibility with standard ratchets and extensions.
- **Socket Sizes:** 14mm and 16mm, suitable for a wide range of spark plugs.
- **Length:** 97mm, providing adequate reach for most applications.
- **Swivel Head:** 360-degree rotating head allows access to spark plugs in confined or angled spaces.
- **Magnetic Retention:** Internal magnet securely holds the spark plug for easy removal and installation, preventing drops.
- **12-Point Design:** Provides a secure grip on spark plugs, reducing the risk of rounding.



Image 3.1: Detailed dimensions of the spark plug sockets, showing 97mm length and socket diameters.

# PRODUCT DETAILS



## **360° ROTATING MOVABLE HEAD**

*More convenient for dealing with uneven angles*

## **MATTE NICKEL PLATING**

*Anti rust and Anti slip*

## **CHROME VANADIUM STEEL CR-V**

*Heat treatment with high hardness*

## **12 POINT ULTRA-THIN DESIGN**

*The thickness at the thin parts only 1 mm*

Image 3.2: Key features of the socket, including the 360° rotating head, matte nickel plating, Chrome Vanadium steel, and 12-point ultra-thin design.

## **4. SETUP AND INSTALLATION**

Before using the spark plug socket, ensure you have the appropriate 3/8-inch drive ratchet or extension.

- 1. Select Correct Size:** Identify the correct spark plug socket size (14mm or 16mm) required for your vehicle's spark plugs.
- 2. Attach to Drive Tool:** Firmly push the 3/8-inch square drive of the socket onto the corresponding drive of your ratchet or extension. Ensure it clicks into place for a secure connection.
- 3. Access Spark Plug:** Carefully maneuver the socket and drive tool into the spark plug well. The 360-degree swivel head allows for flexibility in tight or angled spaces.
- 4. Engage Spark Plug:** Gently push the socket down onto the spark plug until the internal magnet engages and holds the spark plug securely. Ensure the socket is fully seated on the spark plug's hex.

# EASY TO USE



Image 4.1: Demonstrating how to attach the spark plug socket to a ratchet.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Removing Spark Plugs

1. **Prepare:** Ensure the engine is cool. Disconnect the spark plug wire or coil pack from the spark plug.
2. **Position Socket:** Place the appropriate size socket onto the spark plug, ensuring it is fully seated. The magnetic feature will hold the plug once loosened.
3. **Loosen Plug:** Using your ratchet, turn counter-clockwise to loosen the spark plug. Apply steady, even pressure. The swivel head helps navigate obstacles.
4. **Extract Plug:** Once loosened, continue turning until the spark plug is free. The magnet will hold the plug within the socket, allowing for easy and safe extraction from the engine bay.

### 5.2. Installing Spark Plugs

1. **Prepare New Plug:** Ensure the new spark plug has the correct gap as specified by the vehicle manufacturer. Place the new spark plug into the magnetic socket.
2. **Insert Plug:** Carefully lower the socket with the spark plug into the spark plug well. Use the swivel head to align it with the cylinder head threads.

3. **Hand-Tighten:** Begin threading the spark plug by hand (using the socket and extension/ratchet without applying torque) to avoid cross-threading. Turn clockwise until finger-tight.
4. **Torque to Specification:** Once hand-tight, use a torque wrench with the socket to tighten the spark plug to the vehicle manufacturer's specified torque settings. Do not overtighten.
5. **Remove Socket:** Once tightened, pull the socket straight off the spark plug.



Image 5.1: The spark plug socket in use within an engine compartment, demonstrating its accessibility.

# FULL RANGE OF DISPLAY

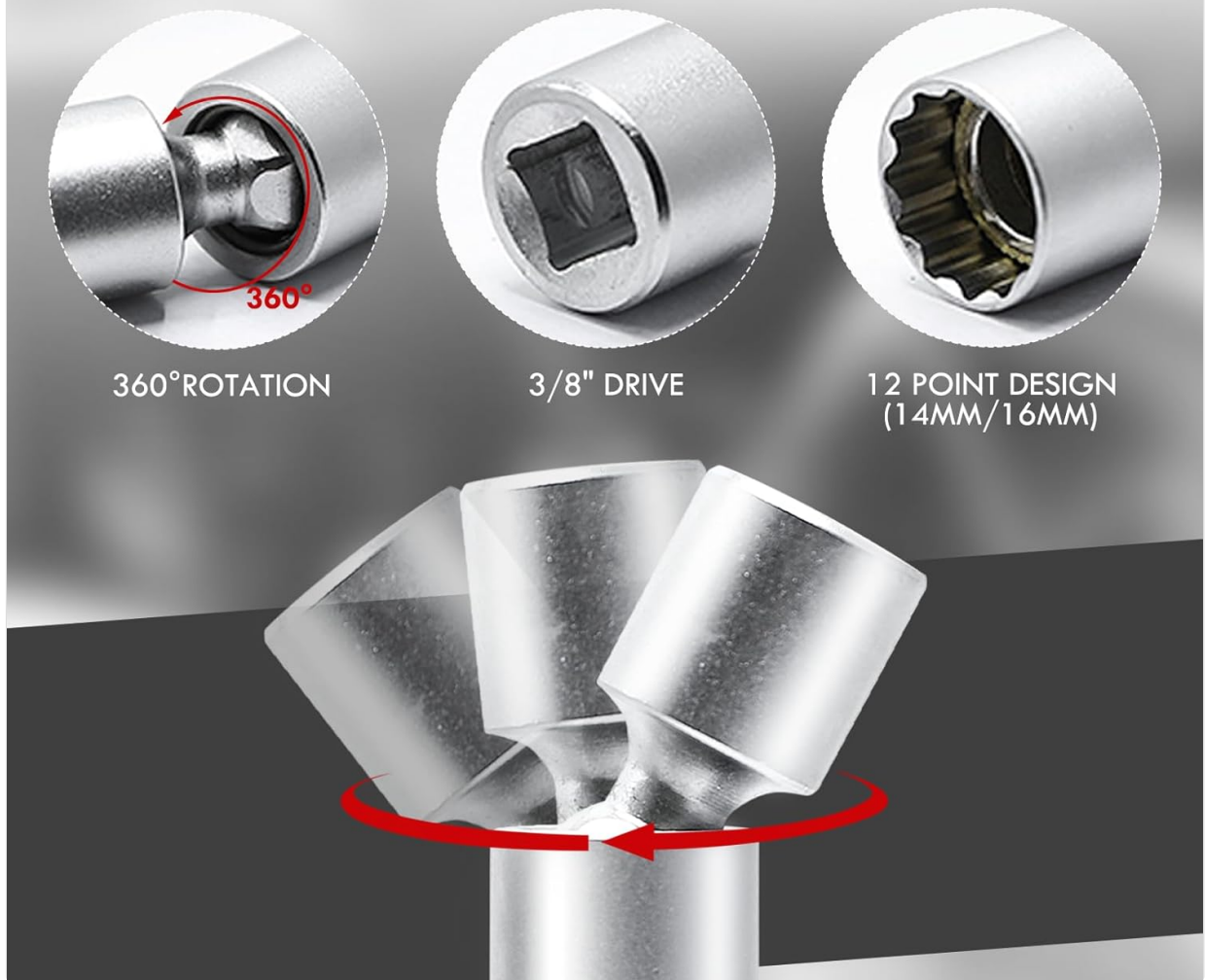


Image 5.2: Visual representation of the 360° rotation capability, 3/8" drive, and 12-point design.

## 6. MAINTENANCE AND CARE

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Proper maintenance ensures the longevity and performance of your spark plug sockets.

- **Cleaning:** After each use, wipe the sockets clean with a dry cloth to remove any oil, grease, or debris. For stubborn grime, use a mild degreaser and then dry thoroughly.
- **Inspection:** Regularly inspect the sockets for signs of wear, cracks, or damage, especially around the drive end and the socket opening. Check the swivel mechanism for smooth operation.
- **Storage:** Store the sockets in a dry environment, preferably in a tool tray or box, to prevent rust and protect them from impact.
- **Magnet Care:** Avoid exposing the magnetic interior to extreme heat, which can demagnetize it over time.

## 7. TROUBLESHOOTING

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Here are some common issues and solutions:

- **Spark Plug Not Gripping:** Ensure the socket is fully seated on the spark plug. If the magnet seems weak, ensure it hasn't been exposed to extreme heat or strong magnetic fields that could affect its

strength.

- **Difficulty Accessing Spark Plug:** Utilize the 360-degree swivel feature to navigate around obstructions. If space is extremely limited, consider using a shorter extension or a universal joint in conjunction with the socket.
- **Socket Stuck on Spark Plug:** Ensure the spark plug is fully unthreaded before attempting to pull the socket off. If the socket is stuck, gently wiggle it while pulling. Avoid excessive force.
- **Socket Rounding Spark Plug:** Ensure you are using the correct size socket (14mm or 16mm) and that it is fully seated on the spark plug's hex before applying torque.

## 8. SPECIFICATIONS

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Feature	Specification
Brand	CCLIFE
Model Number	5311-FBA
Drive Size	3/8 inch
Socket Sizes	14mm, 16mm
Length	97mm
Material	Chrome Vanadium (CR-V) Steel
Finish	Matte Nickel Plated
Special Features	360° Swivel Head, Magnetic Interior, 12-Point Design
Item Weight	230 g
Product Dimensions (L x W x H)	17.3 x 8 x 3.5 cm
Country of Origin	China

## 9. WARRANTY AND SUPPORT

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For information regarding warranty coverage or technical support, please refer to the product packaging or contact CCLIFE customer service directly. Keep your purchase receipt as proof of purchase.

For further assistance, you may visit the official CCLIFE brand store on Amazon:[CCLIFE Brand Store](#)