

[Manuals.plus](#) /

› [CCLIFE](#) /

› CCLIFE Thread Repair Kit Instruction Manual

## CCLIFE 2020

# CCLIFE Thread Repair Kit Instruction Manual

Model: 2020

Brand: CCLIFE

## INTRODUCTION

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This manual provides comprehensive instructions for the CCLIFE 131-piece thread repair kit. This kit is designed for repairing damaged or stripped threads in various applications, including automotive and mechanical systems. It includes all necessary tools and inserts for common thread sizes: M5x0.8, M6x1.0, M8x1.25, M10x1.5, and M12x1.75.

## PRODUCT OVERVIEW AND COMPONENTS

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The CCLIFE thread repair kit contains a complete set of tools and inserts for effective thread restoration.



An open blue metal case displaying the complete CCLIFE 131-piece thread repair kit. The top section holds various drill bits, taps, and installation tools, organized by thread size (M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75). The bottom section contains corresponding thread inserts and tang breaking tools.

## Kit Contents:

- 5 drill bits for removing defective threads.
- 5 taps for creating new threads.
- 5 insertion tools for installing repair inserts.
- 5 tang breaking tools for removing the tang after insert installation.
- 110 thread inserts, including: M5x0.8, M6x1.0, M8x1.25, M10x1.5, and M12x1.75.



A close-up view of the individual components of the CCLIFE thread repair kit, including various sizes of thread installation tools, twist drill bits, tang breaking tools, and thread taps. A table next to the tools indicates the quantity of each type of tool: 5 for Insert Installations, 5 for Twist Drill Bits, 5 for Lug Breaking Tools (Tang Breaking Tools), and 5 for Thread Taps.

Detailed Component Identification:



| Artikel | Beschreibung             | Teil No. | Artikel | Beschreibung              | Teil No. |
|---------|--------------------------|----------|---------|---------------------------|----------|
| 1       | Spiralbohrer 5,2mm       | TRM5.04  | 14      | Gewindereparatur M10x1,5  | TRM10.01 |
| 2       | Gewindereparatur M5x0,8  | TRM5.01  | 15      | Einsetzwerkzeug           | TRM10.02 |
| 3       | Einsetzwerkzeug          | TRM5.02  | 16      | Zapfenbrecher             | TRM10.03 |
| 4       | Zapfenbrecher            | TRM5.03  | 17      | Spiralbohrer 12,5mm       | TRM12.04 |
| 5       | Spiralbohrer 6,3mm       | TRM6.04  | 18      | Gewindereparatur M12x1,75 | TRM12.01 |
| 6       | Gewindereparatur M6x1,0  | TRM6.01  | 19      | Einsetzwerkzeug           | TRM12.02 |
| 7       | Einsetzwerkzeug          | TRM6.02  | 20      | Zapfenbrecher             | TRM12.03 |
| 8       | Zapfenbrecher            | TRM6.03  |         | Gewindeeinsätze 5mm       | TRM5R    |
| 9       | Spiralbohrer 8,3mm       | TRM8.04  |         | Gewindeeinsätze 6mm       | TRM6R    |
| 10      | Gewindereparatur M8x1,25 | TRM8.01  |         | Gewindeeinsätze 8mm       | TRM8R    |
| 11      | Einsetzwerkzeug          | TRM8.02  |         | Gewindeeinsätze 10mm      | TRM10R   |
| 12      | Zapfenbrecher            | TRM8.03  |         | Gewindeeinsätze 12mm      | TRM12R   |
| 13      | Spiralbohrer 10,5mm      | TRM10.04 |         |                           |          |

A detailed view of the CCLIFE thread repair kit with various components numbered from 1 to 20. A corresponding table provides the description and part number for each numbered item, including spiral drills, thread repair inserts, insertion tools, and tang breakers for different thread sizes (M5, M6, M8, M10, M12).

| Item | Description          | Part No. | Item | Description            | Part No. |
|------|----------------------|----------|------|------------------------|----------|
| 1    | Spiral Drill 5.2mm   | TRM5.04  | 14   | Thread Repair M10x1.5  | TRM10.01 |
| 2    | Thread Repair M5x0.8 | TRM5.01  | 15   | Insertion Tool         | TRM10.02 |
| 3    | Insertion Tool       | TRM5.02  | 16   | Tang Breaker           | TRM10.03 |
| 4    | Tang Breaker         | TRM5.03  | 17   | Spiral Drill 12.5mm    | TRM12.04 |
| 5    | Spiral Drill 6.3mm   | TRM6.04  | 18   | Thread Repair M12x1.75 | TRM12.01 |
| 6    | Thread Repair M6x1.0 | TRM6.01  | 19   | Insertion Tool         | TRM12.02 |
| 7    | Insertion Tool       | TRM6.02  | 20   | Tang Breaker           | TRM12.03 |
| 8    | Tang Breaker         | TRM6.03  |      | Thread Inserts 5mm     | TRM5R    |

| Item | Description           | Part No. | Item | Description         | Part No. |
|------|-----------------------|----------|------|---------------------|----------|
| 9    | Spiral Drill 8.3mm    | TRM8.04  |      | Thread Inserts 6mm  | TRM6R    |
| 10   | Thread Repair M8x1.25 | TRM8.01  |      | Thread Inserts 8mm  | TRM8R    |
| 11   | Insertion Tool        | TRM8.02  |      | Thread Inserts 10mm | TRM10R   |
| 12   | Tang Breaker          | TRM8.03  |      | Thread Inserts 12mm | TRM12R   |
| 13   | Spiral Drill 10.5mm   | TRM10.04 |      |                     |          |

## SETUP

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Before beginning any thread repair, ensure the work area is clean and well-lit. Gather all necessary safety equipment, such as safety glasses and gloves. Identify the damaged thread size to select the appropriate drill bit, tap, and thread insert from the kit.

## OPERATING INSTRUCTIONS

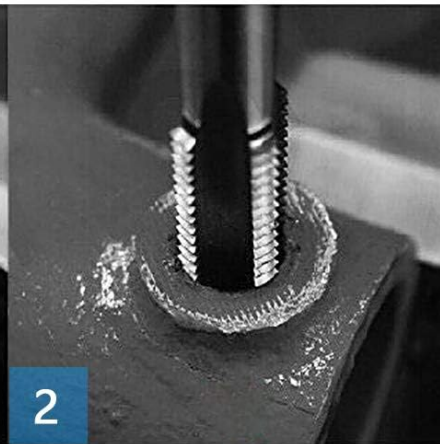
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Follow these steps carefully to repair a damaged thread using the CCLIFE kit.

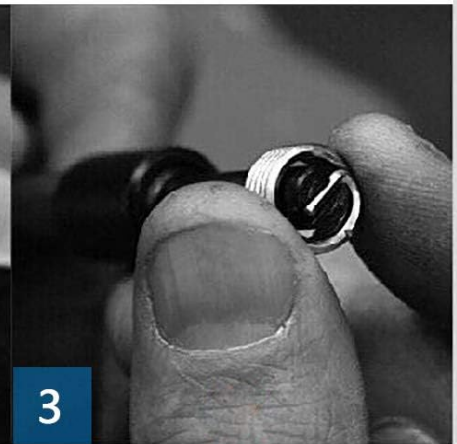
## CONSTRUCTED FROM CHROME VANADIUM STEEL FOR STRENGTH AND LONGEVITY



**1**  
Drill Out The Damaged Thread Using The Correctly Size Twist Drill Bit Provided



**2**  
Tap Drilled Hole Using Screw Tap Provided



**3**  
Load Thread Insert Into Installation Tool



**4**  
Screw Insert Thread Hole



**5**  
Remove The Tag From The Insert Using The Breaking Pin Tool



**6**  
Thread Is Repaired And Ready To Use

A six-step visual guide demonstrating the process of thread repair using the CCLIFE kit.

- Step 1: Drill Out the Damaged Thread.** Use the correctly sized twist drill bit provided in the kit to drill out the damaged thread. Ensure the drill is perpendicular to the surface to create a straight hole.
- Step 2: Tap the Drilled Hole.** Use the corresponding tap provided to create new threads in the drilled hole. Apply cutting fluid if necessary and turn the tap slowly, backing it out periodically to clear chips.
- Step 3: Load Thread Insert.** Load the appropriate thread insert onto the installation tool. Ensure the tang of the insert is correctly positioned in the slot of the installation tool.
- Step 4: Screw Insert into Thread Hole.** Screw the thread insert into the newly tapped hole. Turn the installation tool clockwise until the insert is fully seated below the surface of the material.
- Step 5: Remove the Tang.** Use the tang breaking tool to remove the tang from the installed insert. Place the tang breaking tool over the tang and strike it sharply with a hammer. The tang should break off cleanly.
- Step 6: Thread is Repaired.** The thread is now repaired and ready for use. Test the new thread with a bolt of the correct size to ensure proper fit and strength.

The tools are constructed from chrome vanadium steel for strength and longevity.

## MAINTENANCE

To ensure the longevity and performance of your CCLIFE thread repair kit, follow these maintenance guidelines:

- Clean all tools and inserts after each use to remove debris and cutting fluid.
- Store the kit in its original metal case in a dry environment to prevent rust and corrosion.
- Periodically inspect drill bits and taps for wear or damage. Replace worn components as needed to maintain precision.
- Apply a light coat of oil to metal tools before long-term storage to protect against oxidation.

## TROUBLESHOOTING

### Common Issues and Solutions

- **Issue: Tang breaking tool breaks or bends.**  
*Solution: Ensure the tang breaking tool is aligned correctly with the tang. Apply a sharp, direct strike with a hammer. Avoid twisting or applying excessive force at an angle. While tools are designed for durability, improper use can lead to damage.*
- **Issue: Thread insert does not screw in smoothly.**  
*Solution: Verify that the tapped hole is clean and free of chips. Ensure the tap was used correctly and the threads are clean. Check if the insert is loaded correctly onto the installation tool.*
- **Issue: Drill bit or tap breaks during use.**  
*Solution: Ensure you are using the correct size drill bit and tap for the material. Apply steady, even pressure and use appropriate cutting fluid. Avoid excessive force or rapid turning, especially in hard materials.*
- **Issue: Repaired thread is not strong enough.**  
*Solution: Ensure the original hole was drilled to the correct diameter and the new threads were tapped to the correct depth. The insert must be fully seated and the tang removed cleanly. For critical applications, consider professional advice.*

## SPECIFICATIONS

| Property                       | Value          |
|--------------------------------|----------------|
| Manufacturer                   | CCLIFE         |
| Brand                          | CCLIFE         |
| Model                          | 2020           |
| Item Weight                    | 1.96 Kilograms |
| Product Dimensions (L x W x H) | 39 x 19 x 4 cm |
| Item Model Number              | 2020           |
| Specific Features              | Case, Kit      |
| ASIN                           | B01LH5G5K0     |
| First Available Date           | April 10, 2017 |

## WARRANTY AND SUPPORT

CCLIFE products are manufactured with a focus on quality and precision. For any questions regarding the use, maintenance, or performance of your thread repair kit, please contact CCLIFE customer support. For more information or support, please visit the official CCLIFE store on Amazon:[CCLIFE Store](#).

## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

### Name

Anonymous

### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question