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## UTOOL UT-50

# UTOOL UT-50 Fuel Injector Removal Tool User Manual

Model: UT-50

## 1. PRODUCT OVERVIEW

The UTOOL UT-50 Fuel Injector Removal Tool is specifically designed for the efficient and safe removal of fuel injectors from Land Rover and Jaguar 5.0L V8 Supercharged Petrol Engines (2003-2016 models). This tool simplifies a typically challenging task, improving efficiency and saving time during engine maintenance.

### Key Features:

- **Efficient Injector Removal:** Engineered to easily remove stubborn fuel injectors.
- **High Reliability:** Constructed from high-quality steel for durability and strength.
- **User-Friendly Design:** Improved design for ease of use, enhancing the auto repair experience.
- **Vehicle Compatibility:** Compatible with Land Rover/Jaguar 3.0L and 5.0L petrol engines, including Jaguar X150, XK Series, X250 (XF), XJ models (V8 5.0lt petrol engines), and Land Rover Discovery 4, new Range Rover, Range Rover Sport (V8 5.0lt petrol engines). Replaces OEM tool 310-197.

## 2. PRODUCT COMPONENTS

The UTOOL UT-50 Fuel Injector Removal Tool consists of a main puller body with a slide hammer mechanism and a specialized gripping head designed to securely attach to the fuel injector.

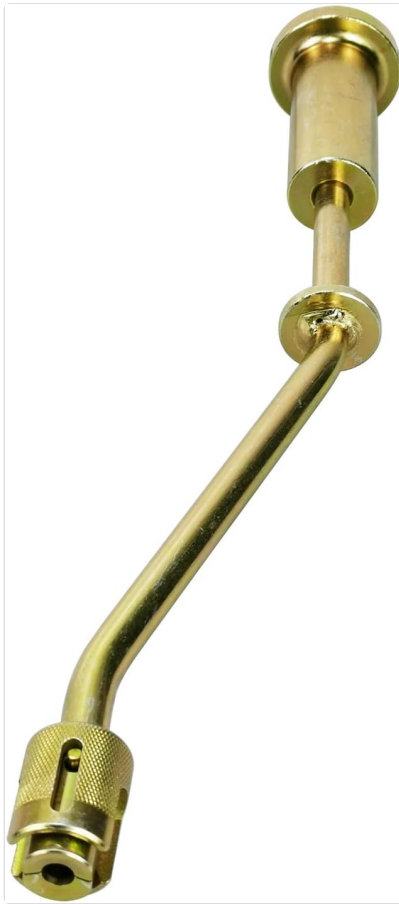


Figure 2.1: Angled view of the UTOOL UT-50 Fuel Injector Removal Tool, showing the main shaft and gripping end.



Figure 2.2: Straight view of the UTOOL UT-50 Fuel Injector Removal Tool, highlighting its overall length and design.

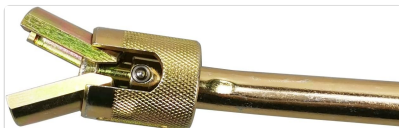


Figure 2.3: Close-up of the tool's gripping mechanism, which expands to secure the injector.



Figure 2.4: Close-up of the slide hammer component, used to generate force for injector extraction.

### 3. SETUP

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Before using the tool, ensure all components are securely assembled. The slide hammer mechanism should be properly attached to the main shaft. It is crucial to tighten the nut at the end of the slider to prevent it from slipping off during use, ensuring safe and effective operation.

#### Assembly Demonstration:

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Video 3.1: This video demonstrates the assembly of a fuel injector puller, showing how to attach the gripping head to the injector and then connect it to the slide hammer for removal.

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Video 3.2: This video illustrates the process of attaching the fuel injector to the removal tool, ensuring a secure fit before extraction.

### 4. OPERATING INSTRUCTIONS

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Follow these steps for effective fuel injector removal:

1. **Prepare the Engine:** Ensure the engine is cool and all necessary components obstructing access to the fuel injectors have been removed.
2. **Attach the Tool:** Carefully position the gripping head of the UT-50 tool onto the fuel injector. Ensure it firmly grips the lower injector lip.
3. **Secure the Grip:** Tighten the mechanism on the gripping head to ensure a secure hold on the injector.
4. **Use the Slide Hammer:** With the tool securely attached, hold the slide hammer firmly. Apply slight downward pressure on the locking clasp as you use the slide hammer to pop the injector free. This technique helps achieve better results.
5. **Extract the Injector:** Continue using the slide hammer until the injector is fully dislodged from its housing.
6. **Remove the Tool:** Once the injector is out, release the gripping mechanism and carefully remove the tool from the injector.

#### Operation Demonstrations:

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Video 4.1: This video demonstrates the use of the fuel injector removal tool in an engine bay, showing the practical application of the slide hammer to extract an injector.

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Video 4.2: This video shows the process of using a fuel injector puller and seal tool, including how to properly engage the tool with the injector for removal.

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Video 4.3: This video provides a demonstration of the fuel injector puller in action, illustrating the force and technique required for successful injector removal.

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Video 4.4: This video showcases both the removal and installation of fuel injectors using specialized tools, including the puller and seal installer.

## 5. MAINTENANCE

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To ensure the longevity and optimal performance of your UTOOL UT-50 Fuel Injector Removal Tool, follow these maintenance guidelines:

- **Cleaning:** After each use, clean the tool thoroughly to remove any oil, grease, or debris. Use a clean cloth and a suitable degreaser if necessary.
- **Lubrication:** Periodically apply a light coat of machine oil to moving parts, such as the slide hammer shaft, to ensure smooth operation and prevent corrosion.
- **Storage:** Store the tool in its original case or a dry, clean environment to protect it from moisture and physical damage.
- **Inspection:** Regularly inspect the tool for any signs of wear, damage, or loose components. Replace any worn parts immediately to maintain safety and effectiveness.

## 6. TROUBLESHOOTING

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While the UTOOL UT-50 is designed for high reliability, occasional issues may arise. Here are some common troubleshooting tips:

- **Tool Disassembly During Use:** If the tool components separate during operation (e.g., pin comes out, bolt flies off), ensure all nuts and connections are securely tightened before use. The nut at the end of the slider must be firmly tightened to prevent accidental separation.
- **Difficulty Gripping Injector:** Ensure the gripping head is correctly positioned on the lower lip of the injector. Adjust the gripping mechanism to achieve a firm and stable hold.
- **Injector Not Releasing:** For extremely stubborn injectors, ensure sufficient force is applied with the slide hammer. Verify that the tool has a proper grip and that no other engine components are obstructing the injector's path.

## 7. SPECIFICATIONS

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Attribute	Detail
Manufacturer	YOUTU AUTOMOTIVE PRODUCTS
Brand	UTOOL
Item Weight	2.42 pounds
Package Dimensions	14.65 x 2.68 x 2.32 inches
Item Model Number	UT-50
Manufacturer Part Number	UT-50
ASIN	B07DSBTC6K

Date First Available	June 16, 2018
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## 8. WARRANTY AND SUPPORT

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The UTOOL UT-50 Fuel Injector Removal Tool comes with **lifetime warranty**, guaranteeing its quality and durability. This tool is made of high-quality steel, ensuring high hardness and strong endurance even after high-strength impact.

For any questions, technical assistance, or warranty claims, please contact UTOOL customer support through the retailer where the product was purchased.