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> ZKTOOL Fuel Injector Puller Remover Tool Instruction Manual for Jaguar & Land Rover 2.0 Petrol Diesel Engines (OEM JLR-310-254, Model ZK463)

ZKTOOL ZK463

ZKTOOL Fuel Injector Puller Remover Tool Instruction Manual

For Jaguar & Land Rover 2.0 Petrol Diesel Engines (OEM JLR-310-254, Model ZK463)

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of the ZKTOOL Fuel Injector Puller Remover Tool. This specialized tool is designed for the precise removal of injection nozzles in specific Jaguar and Land Rover 2.0L petrol and diesel engines. Adherence to these instructions is crucial for proper tool function and user safety.

1.1 Engine Compatibility

- **Petrol Engines:** JLR INGENIUM I4 2.0L petrol engine, found in Jaguar E-Pace, F-Pace, F-Type, XE, and XF (2018 onwards).
- **Diesel Engines:** Land Rover 2.0 Diesel Petrol engines, including Evoque 2.0T. Applicable to Jaguar F-Pace, XE, XF (2015 onwards), Land Rover Discovery Sport, and Range Rover Evoque (2015 onwards).
- **Engine Codes:** AJ-200D, 204DT, AJ200D, AJ200, 204DTD, and similar variants.

This tool is an equivalent to OEM part number JLR-310-254.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when working with automotive tools.
- Ensure the vehicle is stable and properly supported before beginning any work.
- Disconnect the vehicle's battery before performing any maintenance involving electrical components.
- Handle fuel system components with care. Fuel is flammable and under pressure.
- Refer to the vehicle manufacturer's service manual for specific procedures and torque specifications.
- Do not use excessive force. If the injector does not release, re-evaluate the situation and ensure correct tool application.
- Keep the tool clean and free from debris to ensure proper function and longevity.

3. PACKAGE CONTENTS

The ZKTOOL Fuel Injector Puller Remover Tool kit includes the following components:

- Main Puller Body with Adjustable Side Opening
- Slide Hammer Assembly
- Various Adapters and Collars for different injector types
- Storage Case

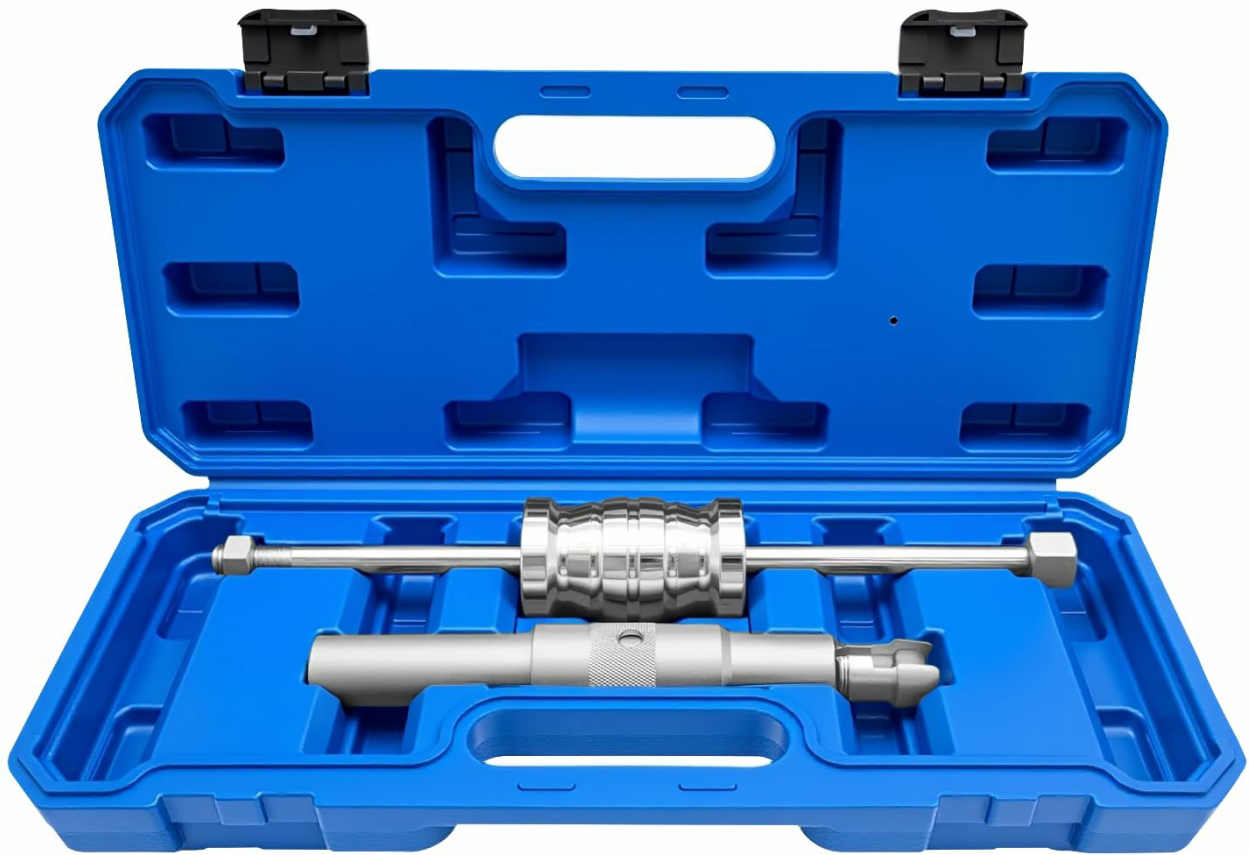


Image 3.1: Overview of the ZKTOOL Fuel Injector Puller Remover Tool Kit, including the main puller body, slide hammer, and various adapters, all neatly organized within its blue storage case.

4. SETUP AND ASSEMBLY

Before use, ensure all components are clean and free from damage. The tool is designed for easy assembly and adjustment to fit various injector types.

4.1 Assembling the Puller

1. Identify the appropriate adapter for the specific fuel injector being removed.
2. Attach the selected adapter to the main puller body. Ensure it is securely fastened.
3. Connect the slide hammer assembly to the main puller body.

EASIER TO ADJUST

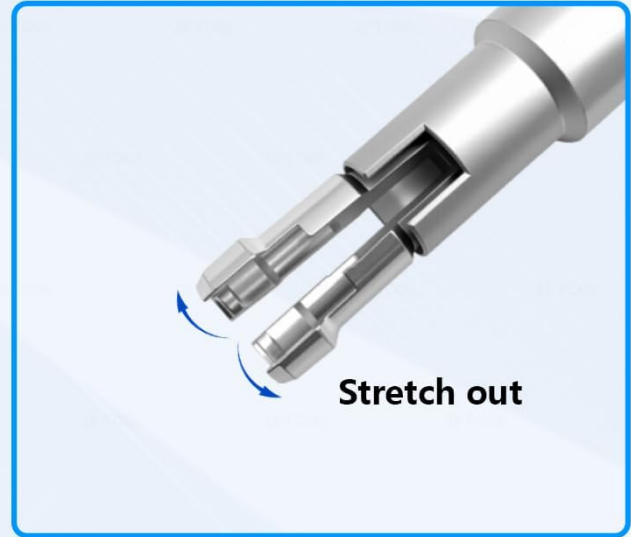
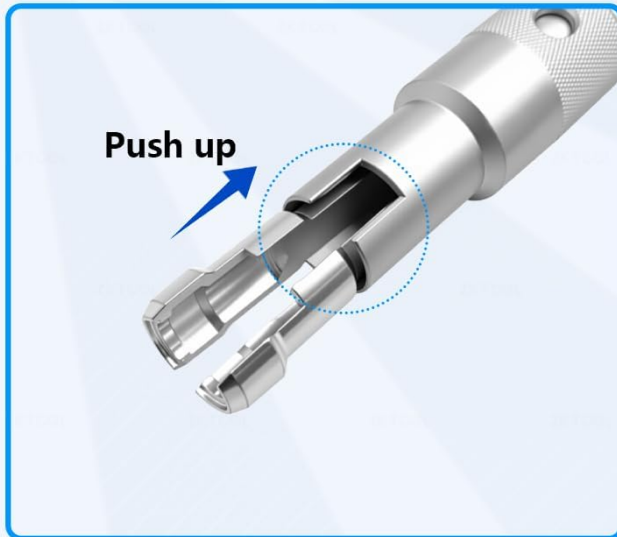


Image 4.1: This diagram illustrates the adjustment mechanism of the puller. The side opening can be adjusted by pushing up to stretch out the jaws and pushing down to pull them back, allowing for a firm grip on the injector.

4.2 Adjusting the Puller Head

The puller head features an adjustable side opening to firmly grasp the injector. To adjust:

- **To Expand:** Push the inner mechanism up to stretch out the gripping jaws.
- **To Contract:** Push the inner mechanism down to pull back the gripping jaws.



Image 4.2: A close-up view of the puller head, highlighting its adjustable jaws designed to securely grip various fuel injectors for removal.

5. OPERATING INSTRUCTIONS: FUEL INJECTOR REMOVAL

Follow these steps for safe and efficient fuel injector removal:

1. **Prepare the Vehicle:** Ensure the engine is cool. Disconnect the battery. Relieve fuel system pressure according to the vehicle manufacturer's instructions.
2. **Access Injectors:** Remove any components obstructing access to the fuel injectors (e.g., engine cover, intake manifold, fuel lines, electrical connectors).
3. **Attach Puller:** Select the correct adapter for the injector. Securely attach the puller head to the injector. Ensure the adjustable jaws firmly grip the injector body.
4. **Use Slide Hammer:** With the puller securely attached, use the slide hammer to gently and progressively pull the injector from its bore. Apply steady, controlled force. Avoid sudden, jerky movements that could damage the injector or surrounding components.
5. **Remove Injector:** Once the injector is loose, carefully extract it from the engine.
6. **Inspect and Clean:** Inspect the injector bore for debris or carbon buildup. Clean as necessary before installing new or reconditioned injectors.

Use for easily removing stuck injectors.

The side opening can be adjusted at an angle, which is more suitable for firmly grasping the injector and easier to remove.



Image 5.1: The ZKTOOL fuel injector puller is shown in action, demonstrating how it is used to extract a stuck injector from the engine. The adjustable side opening ensures a secure grip.

Video 5.1: This video demonstrates the process of using the ZKTOOL Fuel Injector Puller Remover Tool Kit for Land Rover engines. It shows the tool being attached to an injector and the removal process.

6. MAINTENANCE

Proper maintenance ensures the longevity and reliability of your ZKTOOL Fuel Injector Puller Remover Tool:

- **Cleaning:** After each use, clean all components thoroughly to remove any fuel, oil, or carbon residue. Use a suitable degreaser if necessary.
- **Lubrication:** Lightly lubricate moving parts of the slide hammer and adjustable jaws with a general-purpose lubricant to prevent corrosion and ensure smooth operation.
- **Storage:** Store the tool in its original protective case in a dry, clean environment to prevent damage and loss of components.
- **Inspection:** Periodically inspect the tool for any signs of wear, damage, or deformation. Replace any worn or damaged parts immediately.

7. TROUBLESHOOTING

If you encounter issues during the use of the tool, consider the following:

- **Injector Not Releasing:** Ensure the correct adapter is used and securely attached. Verify that all retaining clips or bolts holding the injector are removed. Apply steady, increasing force with the slide hammer. Avoid excessive force that could damage the injector or cylinder head.
- **Tool Slipping:** Re-check the adjustment of the puller jaws to ensure a firm, even grip on the injector. Clean any oil or grease from the injector body that might cause slippage.
- **Difficulty Assembling:** Refer to the setup section and ensure all components are correctly aligned and free from obstructions.

8. SPECIFICATIONS

Feature	Detail
Model Number	ZK463
OEM Equivalent	JLR-310-254
Compatibility	Jaguar & Land Rover 2.0L Petrol/Diesel Engines (Ingenium I4, AJ-200D, 204DT, etc.)
Item Weight	5.88 pounds (approx. 2.67 kg)
Package Dimensions	15.63 x 6.38 x 2.83 inches (approx. 39.7 x 16.2 x 7.2 cm)

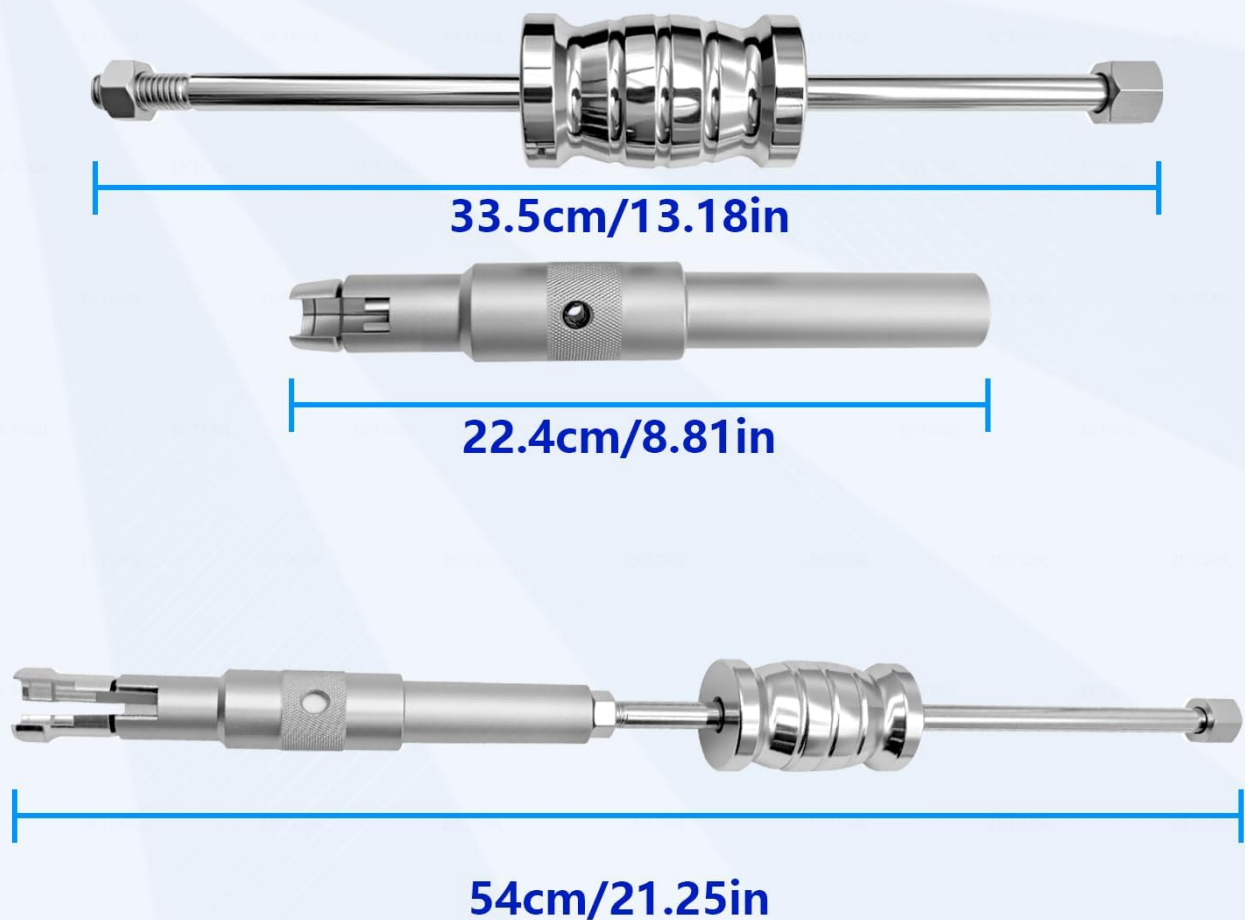


Image 8.1: This image displays the key dimensions of the ZKTOOL Fuel Injector Puller Remover Tool components, including the slide hammer and the main puller body, for reference.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact ZKTOOL customer service through the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

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