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CTA Tools 7808

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Model: 7808

1. INTRODUCTION

The CTA Tools 7808 Injector Puller Kit is designed for the efficient removal of frozen or caked fuel injectors without requiring the removal of their electrical components. This kit is compatible with a wide range of vehicles, servicing both older and late model vehicles equipped with Denso, Siemens, Bosch, and Delphi common rail or piezo injectors from 1999 to current models. By facilitating injector removal without electrical component disassembly, this tool significantly reduces repair time and cost.

2. SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Always wear appropriate personal protective equipment, including safety glasses and gloves, when using this tool. Ensure the work area is well-ventilated. Read and understand all instructions before use.

- Always wear eye protection to prevent injury from flying debris.
- Wear appropriate hand protection to avoid cuts or chemical exposure.
- Ensure the vehicle is stable and properly supported before beginning any work.
- Disconnect the vehicle's battery before working on fuel system components.
- Be aware of fuel pressure and take necessary precautions to relieve it before disconnecting fuel lines.
- Keep children and bystanders away from the work area.
- Use the tool only for its intended purpose.

3. KIT CONTENTS

The CTA Tools 7808 Injector Puller Kit includes the following components:

1. (1) Slide Hammer Shaft
2. (1) 1.5 kg (3.3 lbs) Slide Hammer
3. (1) Articulator with Foam Handle

4. (1) M12 Connector
5. (1) M14 Connector
6. (2) Spacers
7. (1) Threaded Extractor



Figure 1: The CTA Tools 7808 Injector Puller Kit neatly organized within its durable storage case.



Figure 2: A detailed view of all individual components included in the CTA Tools 7808 Injector Puller Kit, separated from the case.

4. SETUP

Before attempting to remove an injector, ensure the engine is cool and all necessary safety precautions are in place. Identify the type of injector (Denso, Siemens, Bosch, Delphi) and its specific connection type (M12 or M14) to select the correct connector from the kit.

1. **Prepare the Injector:** Clean the area around the injector to prevent debris from entering the fuel system. Ensure the electrical part of the injector is not obstructed.
2. **Select Connector:** Choose either the M12 or M14 connector based on the injector's threading. If the original coupling cannot be removed, these connectors provide an alternative attachment point.
3. **Assemble the Puller:**
 - a. Thread the selected connector onto the top of the injector.
 - b. Attach the articulator with the foam handle to the connector.
 - c. Slide the 1.5 kg (3.3 lbs) slide hammer onto the slide hammer shaft.
 - d. Connect the slide hammer shaft to the articulator.

- e. If needed, use the provided spacers to adjust the length or leverage.



Figure 3: A closer look at the various components, highlighting the M12 and M14 connectors, spacers, and the threaded extractor.

5. OPERATING INSTRUCTIONS

The injector can be removed using two primary methods: rotation with the handle or axial extraction with the slide hammer.

5.1. Method 1: Rotating with the Handle

1. Ensure the puller assembly is securely attached to the injector.
2. Grip the foam handle of the articulator firmly.
3. Apply steady, rotational force to the handle, attempting to twist the injector free from its seating. This method is often effective for injectors that are not severely seized.
4. Once the injector begins to loosen, continue rotating and gently pulling until it is fully extracted.

5.2. Method 2: Axial Extraction with Slide Hammer

1. With the slide hammer assembly attached to the injector, hold the slide hammer shaft firmly.
2. Slide the 1.5 kg (3.3 lbs) hammer forcefully towards the handle, away from the injector. The impact of the hammer against the stop will create an upward pulling force on the injector.
3. Repeat this action, applying consistent and controlled impacts, until the injector begins to move.
4. Continue the axial extraction process until the injector is completely removed from its bore.
5. *Caution:* Avoid excessive force that could damage the injector or surrounding engine components. If the injector is extremely stubborn, apply penetrating oil and allow it to soak before attempting removal again.

6. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your CTA Tools 7808 Injector Puller Kit.

- **Cleaning:** After each use, clean all components with a clean cloth to remove any fuel, oil, or debris.
- **Lubrication:** Lightly lubricate threaded parts and the slide hammer shaft with a general-purpose oil to prevent corrosion and ensure smooth operation.
- **Storage:** Store the kit in its original case in a dry, clean environment to protect it from moisture and damage.
- **Inspection:** Periodically inspect all components for signs of wear, damage, or corrosion. Replace any damaged parts immediately.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Injector not loosening with rotational force.	Injector is severely seized or caked.	Switch to axial extraction method with the slide hammer. Apply penetrating oil and allow it to soak.
Slide hammer impacts are ineffective.	Insufficient force, injector too stubborn, or improper attachment.	Ensure full travel of the slide hammer. Verify secure attachment of the connector to the injector. Apply penetrating oil.
Connector does not fit the injector.	Incorrect connector size selected.	Verify injector threading (M12 or M14) and select the appropriate connector from the kit.
Damage to injector or surrounding components.	Excessive or uncontrolled force.	Always use controlled force. If an injector is extremely difficult to remove, consult a professional mechanic.

8. SPECIFICATIONS

- **Model:** CTA Tools 7808 Injector Puller Kit
- **Brand:** CTA Tools
- **Material:** Metal, Stainless Steel
- **Item Weight:** 9.77 pounds (approximately 4.43 kg)
- **Product Dimensions:** 13.5 x 13.5 x 9.5 inches (approximately 34.3 x 34.3 x 24.1 cm)
- **Slide Hammer Weight:** 1.5 kg (3.3 lbs)
- **Connectors Included:** M12, M14
- **Compatibility:** Denso, Siemens, Bosch, Delphi common rail or piezo injectors (1999 to current models)

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your CTA Tools 7808 Injector Puller Kit, please refer to the official CTA Tools website or contact their customer service department directly. Keep your purchase receipt as proof of purchase.

CTA Tools Contact Information:

Website: www.ctatools.com

Customer Service: Refer to the website for contact numbers or email support.

