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HIRINTOL 294000-0901 294000-0900 22100-0L060

HIRINTOL Fuel Injection Pump User Manual

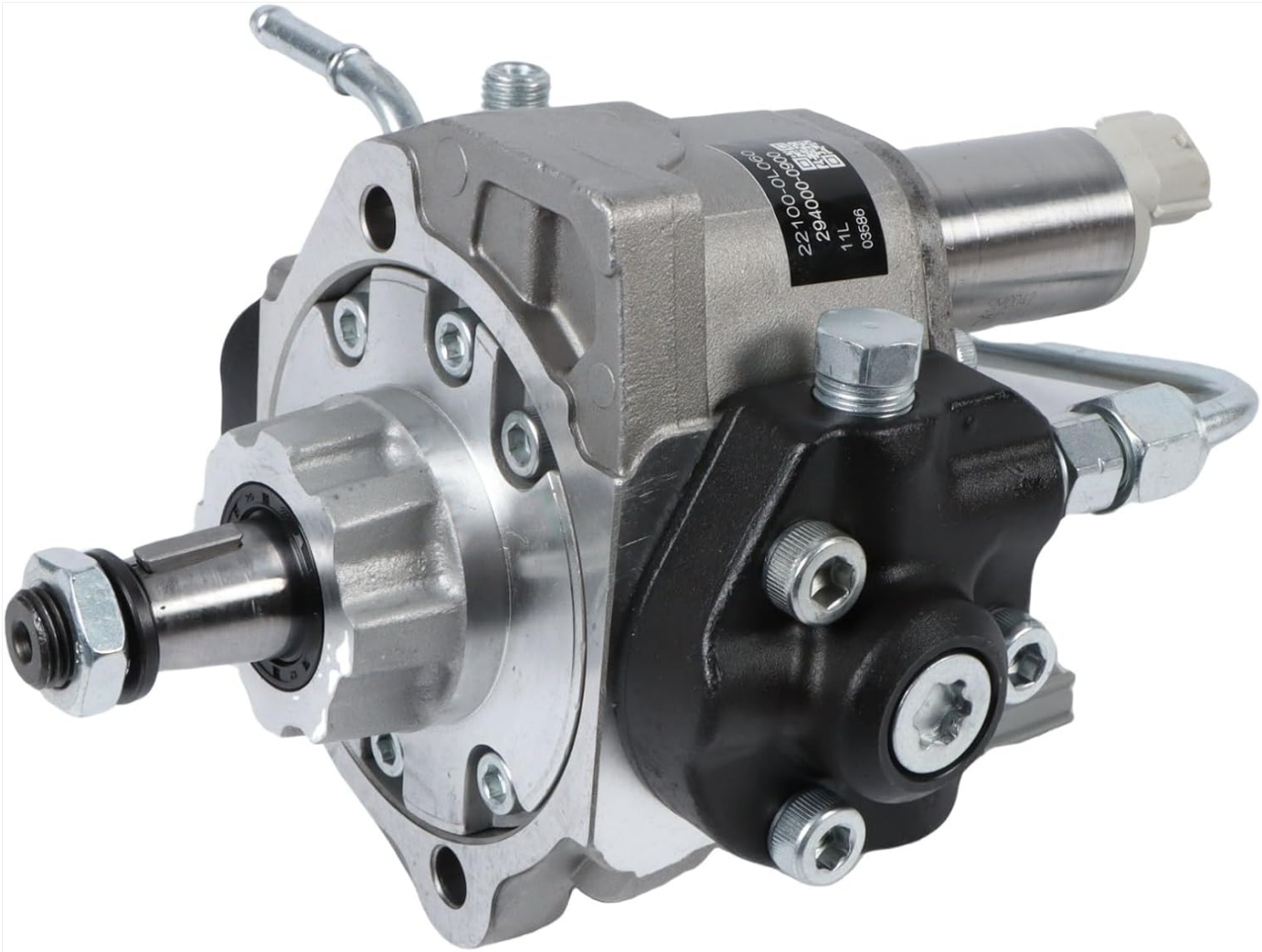
Models: 294000-0901, 294000-0900, 22100-0L060

1. Introduction

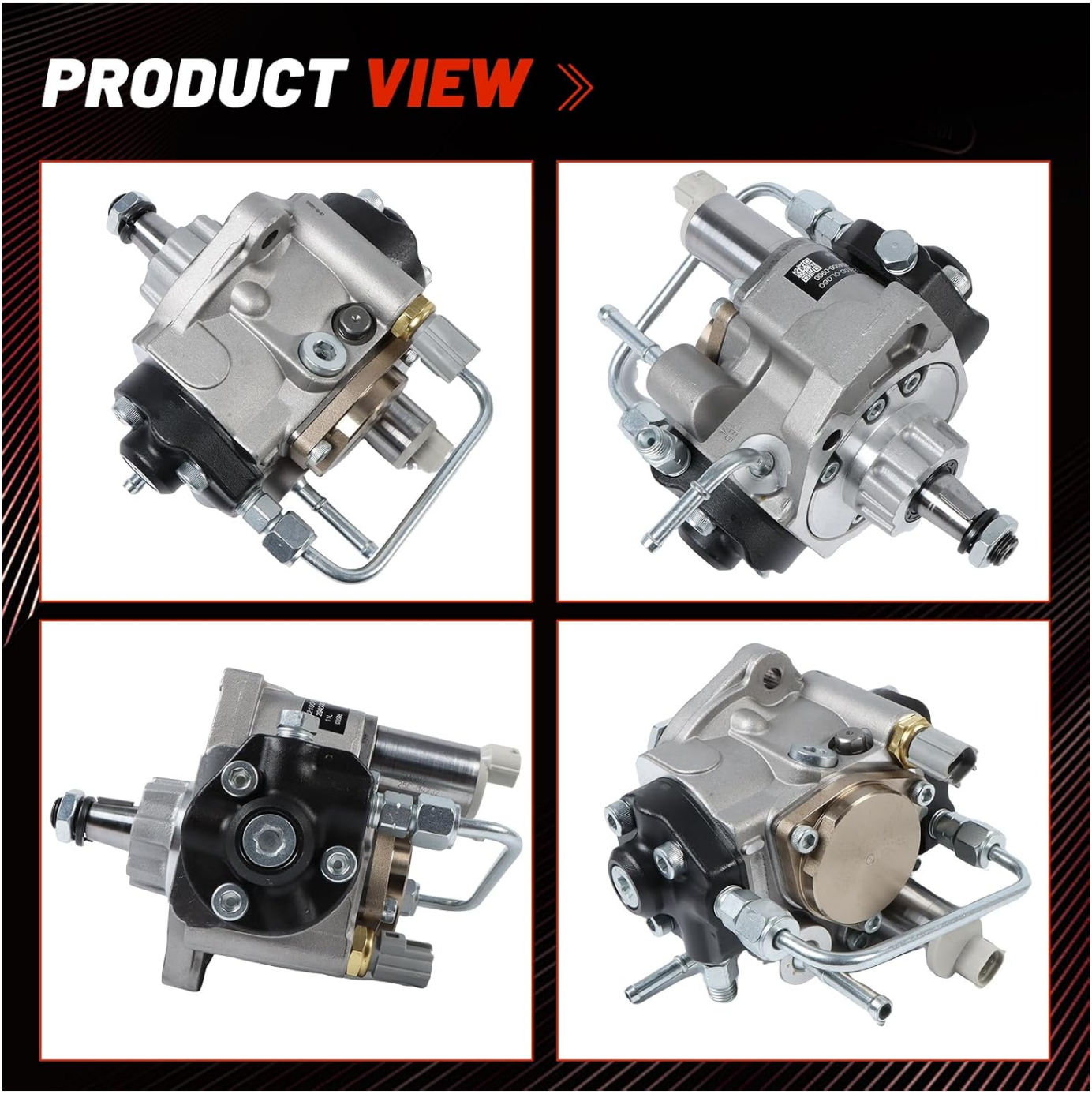
This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your HIRINTOL Fuel Injection Pump. Designed for specific Toyota diesel engines, this component is crucial for your vehicle's fuel system. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of the product.

2. Product Overview

The HIRINTOL Fuel Injection Pump is an aftermarket component engineered to meet or exceed original equipment (OE) specifications. It is constructed from durable metal and designed for diesel fuel systems. This pump ensures efficient and stable fuel delivery, contributing to reliable engine performance.



A detailed view of the HIRINTOL Fuel Injection Pump, showcasing its robust metal construction and various connection points. This image highlights the primary components of the pump.



Multiple perspectives of the HIRINTOL Fuel Injection Pump are presented, offering a complete visual understanding of its design from various angles.

3. Package Contents

Upon opening the package, please verify that all components are present and undamaged:

- 1pc HIRINTOL HP3 Fuel Injection Pump (Part Numbers: 294000-0901, 294000-0900, 22100-0L060)

4. Compatibility

This fuel injection pump is designed for direct replacement in the following Toyota vehicles and engines:

- **Engine Types:** 1KD-FTV, 2KD-FTV (2.5L, 3.0L)
- **Vehicle Models:**
    - Toyota Hiace

- Toyota Hilux
- Toyota Dyna
- Toyota Land Cruiser KDJ120, KDJ125 D-4D
- Toyota TGN, LAN, KUN16 (Euro 4 Engine variants)

Please cross-reference the part numbers (294000-0901, 294000-0900, 22100-0L060) with your vehicle's existing part or manufacturer specifications to ensure correct fitment.



A visual representation of the fuel injection pump alongside a comprehensive list of compatible Toyota vehicles and engine specifications, including models like Hiace, Hilux, Dyna, and Land Cruiser with 1KD-FTV and 2KD-FTV engines.

5. Setup and Installation

The HIRINTOL Fuel Injection Pump is designed for direct replacement. While installation is intended to be straightforward, it is highly recommended that this component be installed by a qualified automotive technician. Improper installation can lead to vehicle damage or malfunction.

Key Installation Considerations:

- Ensure the engine is cool and the battery is disconnected before beginning work.
- Relieve fuel system pressure according to your vehicle's service manual.
- Carefully remove the old fuel injection pump, noting all connections and mounting points.
- Install the new HIRINTOL pump, ensuring all connections are secure and free from leaks.
- Bleed the fuel system as required by your vehicle's manufacturer.
- Verify proper function after installation, checking for any fault codes or unusual operation.



This composite image provides close-up details of the fuel injection pump, emphasizing its design for direct replacement, appropriate flow and pressure ratings, high performance after installation, and durable, fuel-saving construction.

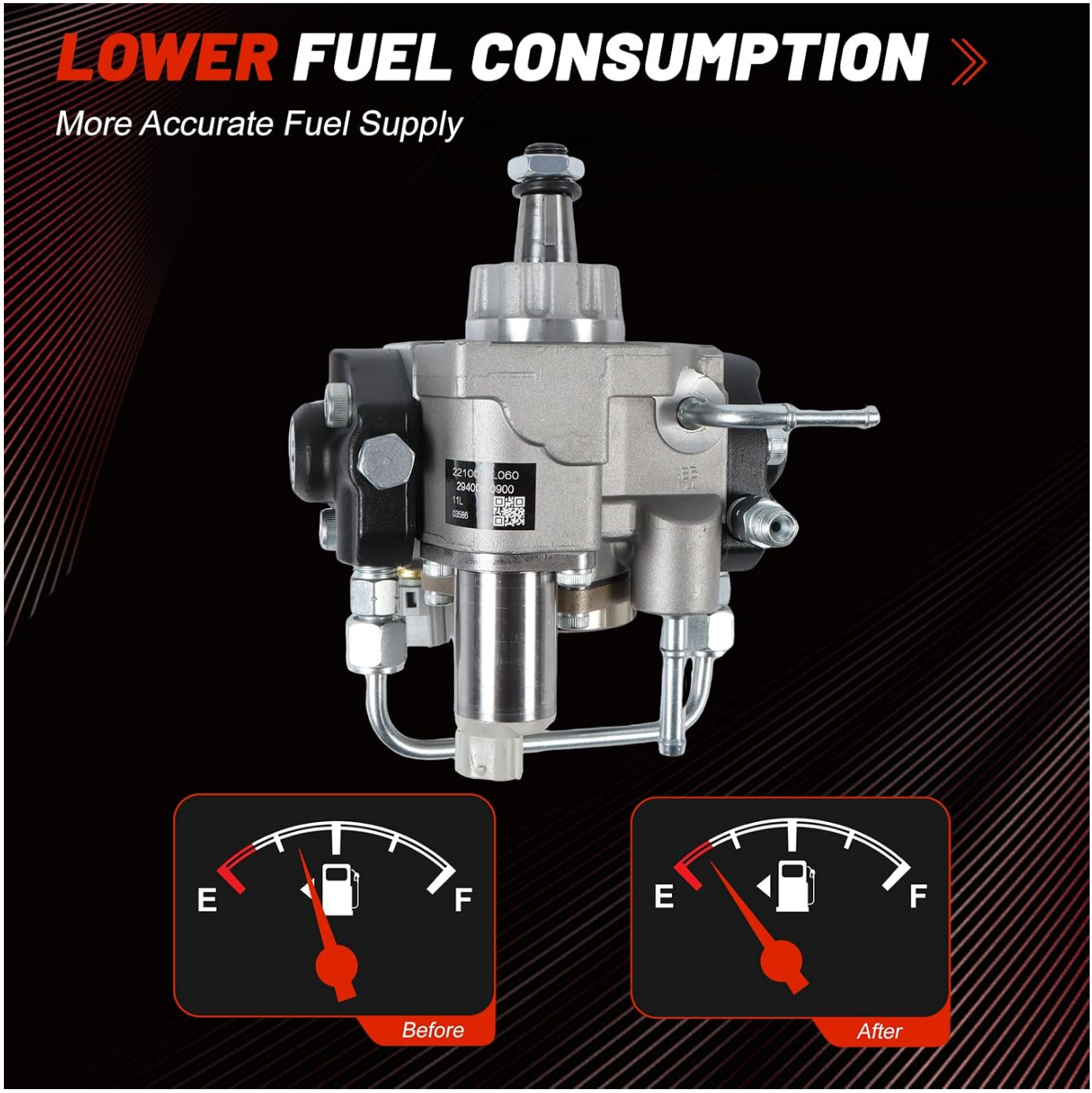
6. Operating Principles

The fuel injection pump is a critical component in a diesel engine's fuel system, responsible for delivering fuel at high pressure to the injectors. The HIRINTOL Fuel Injection Pump is designed to:

- **Accelerate Fuel Atomization:** Ensures fine dispersion of fuel for efficient combustion.
- **Reduce Fuel Pulsation:** Provides a smooth and consistent fuel flow.
- **Minimize Noise:** Contributes to quieter engine operation.
- **Prevent Hot-Start Problems:** Ensures reliable starting even when the engine is warm.
- **Enhance Power and Speed:** Delivers strong power and faster engine response.
- **Improve Fuel Efficiency:** More accurate fuel supply can lead to lower fuel consumption.



This image illustrates the HIRINTOL Fuel Injection Pump and its key performance advantages, including extended operational life, enhanced power delivery, improved engine response, and reduced operational noise.



An illustration demonstrating the potential for improved fuel efficiency with the HIRINTOL Fuel Injection Pump, depicted by a comparison of fuel gauge readings before and after its use.

7. Maintenance

Proper maintenance of your vehicle's fuel system is essential for the longevity and performance of the fuel injection pump. While the pump itself requires minimal direct maintenance, adhering to general fuel system care is crucial:

- **Use Clean Fuel:** Always use high-quality, clean diesel fuel to prevent contamination of the fuel system.
- **Regular Fuel Filter Replacement:** Follow your vehicle manufacturer's recommendations for fuel filter replacement intervals. A clogged fuel filter can strain the pump.
- **Inspect for Leaks:** Periodically check fuel lines and connections around the pump for any signs of leaks.
- **Professional Inspection:** Have your fuel system professionally inspected during routine vehicle servicing.

8. Troubleshooting

If you experience any issues with your vehicle's fuel system, consider the following common problems and potential solutions. For

complex issues, consult a qualified mechanic.



This image highlights common issues that the HIRINTOL Fuel Injection Pump is designed to address, such as difficulty starting the engine, reduced fuel efficiency, diminished engine responsiveness, and the presence of fuel odors.

Problem	Possible Cause	Suggested Action
Engine Unable to Start	Insufficient fuel supply, pump malfunction, air in fuel lines.	Check fuel level, inspect fuel filter, bleed fuel system, consult technician for pump diagnosis.
Lower Fuel Efficiency	Pump not delivering optimal pressure/flow, clogged injectors, fuel leaks.	Inspect fuel lines for leaks, check fuel filter, have pump pressure/flow tested by a professional.
Diminished Engine Responsiveness	Inconsistent fuel delivery, pump wear.	Ensure proper fuel quality, professional diagnostic check of the fuel system.

Problem	Possible Cause	Suggested Action
Fuel Odor in Vehicle	Fuel leak from pump, lines, or connections.	Immediately inspect all fuel system components for leaks. Address any leaks promptly to prevent fire hazards.

9. Specifications

Detailed specifications for the HIRINTOL Fuel Injection Pump:

- **Part Numbers:** 294000-0901, 294000-0900, 22100-0L060
- **Brand:** HIRINTOL
- **Fuel Type:** Diesel
- **Material:** Metal
- **Item Condition:** Aftermarket Part
- **Way of Use:** Direct Replacement
- **Specification Met:** OE (Original Equipment)
- **Operation Mode:** Mechanical
- **Item Weight:** Approximately 11.05 pounds
- **Package Dimensions:** Approximately 11.57 x 10.28 x 9.65 inches

10. Warranty and Support

Warranty Information:

This HIRINTOL Fuel Injection Pump comes with a **6-month warranty period**. During this period, repair or replacement services will be provided for any manufacturing defects or product malfunctions under normal operating conditions. This warranty does not cover damage due to improper installation, misuse, neglect, or unauthorized modifications.

Customer Support:

For any questions, technical assistance, or warranty claims, please contact the seller or HIRINTOL customer support through the platform where the purchase was made. Please have your purchase details and product model information ready when contacting support.

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

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