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› FEL-PRO 35643 Engine Water Pump Gasket: Installation and Maintenance Manual for Toyota Tacoma, 4Runner, and T100

Fel-Pro 35643

FEL-PRO 35643 Engine Water Pump Gasket: Installation and Maintenance Manual

For Toyota Tacoma, 4Runner, and T100 Vehicles

1. INTRODUCTION

This manual provides essential information regarding the FEL-PRO 35643 Engine Water Pump Gasket. It is designed to assist in understanding the product's features, compatibility, and general guidelines for installation and maintenance. For specific vehicle repair procedures, always consult the appropriate factory service manual for your vehicle.

2. PRODUCT OVERVIEW

The FEL-PRO 35643 Engine Water Pump Gasket is engineered to provide a reliable seal for your vehicle's water pump. Fel-Pro gaskets are known for their application-specific materials, ensuring performance and durability.

Key Features:

- Meets or exceeds all original equipment specifications.
- Application-specific design for precise fit.
- Manufactured for the sealing repair environment.
- Validated for fit, form, and function.
- Ensures quality and reliability.



Image 2.1: FEL-PRO 35643 Engine Water Pump Gasket. This image displays the gasket's specific shape and design, highlighting its contours and bolt holes.

3. COMPATIBILITY

The FEL-PRO 35643 Engine Water Pump Gasket is compatible with the following Toyota vehicles:

- 1996-2010 Toyota 4Runner
- 1994-1998 Toyota T100
- 1995-2021 Toyota Tacoma
- 1995-2004 Toyota Tacoma

Important: Before purchasing or installing, verify compatibility with your specific vehicle's year, make, model, engine, and trim. Consult your vehicle's documentation or a qualified mechanic for confirmation.

4. SETUP AND INSTALLATION

Installation of an engine water pump gasket requires mechanical expertise and specific tools. It is highly recommended that this part be installed by a qualified mechanic or an individual with extensive experience in automotive repair.

General Installation Guidelines:

1. **Preparation:** Ensure the engine is cool and the cooling system is drained. Disconnect the battery.
2. **Access:** Remove any components obstructing access to the water pump (e.g., belts, hoses, fan shroud).
3. **Removal:** Carefully unbolt and remove the old water pump and gasket.
4. **Surface Cleaning:** Thoroughly clean all mating surfaces on the engine block and the new water pump to remove old gasket material, corrosion, and debris. A clean surface is critical for a proper seal.
5. **Gasket Placement:** Position the new FEL-PRO 35643 gasket onto the water pump or engine block, ensuring all bolt holes align correctly.
6. **Installation:** Install the new water pump, ensuring proper alignment. Tighten bolts to the manufacturer's specified torque settings, following the recommended tightening sequence. Overtightening or undertightening

can lead to leaks.

7. **Reassembly:** Reinstall all removed components, refill the cooling system with the appropriate coolant, and bleed any air from the system.
8. **Testing:** Start the engine and check for leaks. Monitor coolant levels and engine temperature during initial operation.

Warning: Failure to follow proper installation procedures and torque specifications can result in coolant leaks, engine overheating, and severe engine damage.

Your browser does not support the video tag.

Video 4.1: A-Premium Engine Water Pump with Gasket. This video provides a visual overview of an engine water pump and its accompanying gasket, demonstrating components and key features relevant to installation. Note that this video is for a related product and serves as a general visual aid, not specific installation instructions for the FEL-PRO 35643 gasket.

5. OPERATING PRINCIPLES

The water pump gasket's primary function is to create a leak-proof seal between the engine block and the water pump. This seal is crucial for maintaining the integrity of the engine's cooling system, preventing coolant from escaping and ensuring the water pump can effectively circulate coolant throughout the engine. A properly sealed system allows the engine to maintain optimal operating temperatures, preventing overheating and potential damage.

6. MAINTENANCE

While the gasket itself does not require routine maintenance, its performance is directly linked to the overall health of the cooling system. Regular checks of the cooling system are recommended:

- **Coolant Level:** Periodically check the coolant level in the reservoir and radiator. Low coolant levels can indicate a leak.
- **Visual Inspection:** Inspect the area around the water pump for any signs of coolant leaks (e.g., drips, stains, residue).
- **Hose and Clamp Condition:** Ensure all cooling system hoses are in good condition (no cracks or bulges) and clamps are secure.
- **Coolant Quality:** Ensure the coolant is clean and at the correct concentration. Contaminated or old coolant can degrade gasket materials over time.

7. TROUBLESHOOTING

If you suspect an issue with your water pump gasket, observe the following symptoms:

Common Symptoms of a Failing Water Pump Gasket:

- **Coolant Leaks:** Visible puddles of coolant under the vehicle, especially near the front of the engine. Coolant may be green, orange, or pink depending on the type.
- **Engine Overheating:** The engine temperature gauge rises above normal operating levels.
- **Low Coolant Level:** Frequent need to add coolant to the system without an obvious external leak from hoses or radiator.
- **Steam from Engine Bay:** Steam or smoke emanating from under the hood, often accompanied by a sweet smell of coolant.

If any of these symptoms occur, it is recommended to have your vehicle inspected by a qualified mechanic

immediately to prevent further engine damage.

8. SPECIFICATIONS

Specification	Value
Manufacturer	FEL-PRO
Brand	Fel-Pro
Model	35643
Item Weight	0.32 ounces
Product Dimensions	12 x 8 x 0.02 inches
Item Model Number	35643
Manufacturer Part Number	35643
OEM Part Number	35643
Position	Center

9. WARRANTY INFORMATION

Specific warranty details for the FEL-PRO 35643 Engine Water Pump Gasket are typically provided by the manufacturer or the retailer at the time of purchase. Please retain your proof of purchase and refer to the documentation included with your product for comprehensive warranty terms and conditions. For any warranty claims or inquiries, contact the original seller or Fel-Pro customer service directly.

10. SUPPORT

For technical assistance, product inquiries, or support regarding the FEL-PRO 35643 Engine Water Pump Gasket, please contact the following:

- **Manufacturer Support:** Visit the official Fel-Pro website for contact information and technical resources.
- **Retailer Support:** Contact the retailer from whom you purchased the product for assistance with orders, returns, or general product information.
- **Professional Mechanic:** For installation or diagnostic assistance, consult a certified automotive mechanic.

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Email

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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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