

Fel-Pro 35987

FEL-PRO 35987 Engine Water Pump Gasket User Manual

Model: 35987 | Brand: Fel-Pro



Fel-Pro Brand Logo

1. INTRODUCTION

This manual provides essential information for the FEL-PRO 35987 Engine Water Pump Gasket. Fel-Pro gaskets are engineered to offer 100% vehicle sealing, utilizing application-specific materials to deliver sealing solutions with the performance and durability trusted by professionals. This product is designed to meet or exceed all original equipment specifications, ensuring a precise fit, form, and function for your vehicle's water pump system.

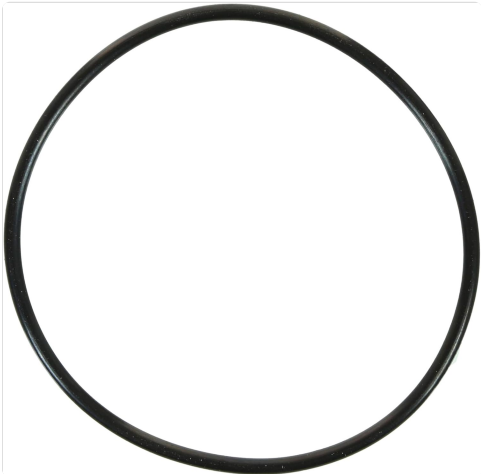


Image 1.1: The FEL-PRO 35987 Engine Water Pump Gasket. This gasket is a critical component for maintaining a leak-free seal in the engine's water pump assembly.

2. VEHICLE COMPATIBILITY

The FEL-PRO 35987 Engine Water Pump Gasket is compatible with a range of vehicle models. Please verify compatibility before purchase to ensure proper fitment.

- 1993-1993 Cadillac Allante
- 1994-2005 Cadillac DeVille
- 1993-2002 Cadillac Eldorado
- 1993-2004 Cadillac Seville
- 2004-2005 Pontiac Bonneville

Important: Before purchasing, it is crucial to check the vehicle compatibility using a reliable fitment tool. Enter all vehicle information (year, make, model, engine, and trim) to confirm this part will fit your specific vehicle. Pay attention to any additional qualifier notes that may be provided.

3. SETUP AND PRE-INSTALLATION

Proper preparation is key to a successful gasket installation and long-term sealing performance. Ensure you have all necessary components and tools before beginning the installation process.

3.1. What's in the Box

- One (1) FEL-PRO 35987 Engine Water Pump Gasket

3.2. Pre-Installation Checklist

1. **Inspect the Gasket:** Carefully examine the new gasket for any signs of damage, bends, or imperfections.
2. **Clean Mating Surfaces:** Ensure that the surfaces where the gasket will be installed (on both the engine block and the water pump) are thoroughly cleaned. Remove all old gasket material, corrosion, and debris. Use a suitable gasket scraper and cleaner, being careful not to damage the metal surfaces.
3. **Verify Part Match:** Compare the new FEL-PRO 35987 gasket with the old gasket (if available) to confirm it is the correct replacement part for your application.
4. **Gather Tools:** Have all necessary automotive tools readily available, including wrenches, sockets, torque wrench, and any specific tools required for water pump removal and installation on your vehicle model.

4. INSTALLATION GUIDELINES

Installing an engine water pump gasket requires mechanical expertise and specific knowledge of your vehicle's cooling system. Incorrect installation can lead to coolant leaks, engine overheating, and severe engine damage. **It is highly recommended that installation be performed by a certified automotive technician or by following a detailed vehicle-specific service manual.**

4.1. General Installation Principles (Consult Service Manual for Specifics)

1. **Drain Coolant:** Safely drain the engine coolant from the cooling system.
2. **Remove Components:** Carefully remove any components obstructing access to the water pump, such as belts, hoses, and pulleys.
3. **Remove Old Water Pump:** Unbolt and remove the old water pump assembly.
4. **Clean Surfaces:** As mentioned in Section 3.2, meticulously clean all mating surfaces on the engine block and the new water pump. This is critical for a proper seal.
5. **Position New Gasket:** Carefully position the new FEL-PRO 35987 gasket onto the water pump or engine block, ensuring proper alignment with all bolt holes and passages. Some gaskets may require a thin bead of RTV sealant, but many modern gaskets are designed for dry installation; consult your vehicle's service manual or gasket instructions.
6. **Install New Water Pump:** Mount the new water pump assembly, ensuring the gasket remains correctly seated.

7. **Tighten Bolts:** Install and hand-tighten all water pump bolts. Then, using a torque wrench, tighten the bolts to the manufacturer's specified torque values and in the correct sequence (often a star pattern) to ensure even pressure across the gasket. *Do not overtighten.*
8. **Reassemble Components:** Reinstall all removed components (hoses, belts, pulleys, etc.).
9. **Refill Coolant:** Refill the cooling system with the appropriate type and amount of coolant, and bleed any air from the system as per vehicle manufacturer guidelines.
10. **Test for Leaks:** Start the engine and allow it to reach operating temperature. Carefully inspect for any signs of coolant leaks around the new gasket. Monitor coolant levels and engine temperature.



Image 4.1: A technician demonstrating the placement of a gasket on an engine block. Proper alignment and clean surfaces are crucial for effective sealing.

5. MAINTENANCE

Once installed, the FEL-PRO 35987 water pump gasket is designed for long-term durability. Regular vehicle maintenance practices will help ensure its longevity and the overall health of your cooling system.

- **Regular Coolant Checks:** Periodically check your engine's coolant level and condition. Low coolant levels can indicate a leak, potentially from the water pump gasket.
- **Inspect for Leaks:** Visually inspect the area around the water pump for any signs of coolant leaks (e.g., drips, stains, or residue). Address any leaks promptly.
- **Cooling System Flush:** Follow your vehicle manufacturer's recommendations for cooling system flushes and coolant replacement. Clean coolant helps prevent corrosion and extends the life of all cooling system components, including gaskets.
- **Monitor Temperature Gauge:** Pay attention to your vehicle's engine temperature gauge. Consistent overheating can put excessive stress on gaskets and other engine components.

6. TROUBLESHOOTING

If you experience issues after installing the water pump gasket, consider the following common problems and potential solutions. Always consult a professional mechanic if you are unsure about diagnosing or repairing automotive issues.

Symptom	Possible Cause	Recommended Action
Coolant Leak from Water Pump Area	Improper gasket installation, damaged gasket, warped mating surfaces, incorrect torque on bolts.	Re-inspect installation. Ensure surfaces were clean and bolts torqued correctly. Gasket may need replacement if damaged. Check for warped components.
Engine Overheating	Coolant loss due to gasket leak, air in cooling system, faulty water pump, other cooling system issues.	Check for leaks. Bleed cooling system of air. Inspect water pump function. Consult a mechanic for comprehensive cooling system diagnosis.
Unusual Noises from Water Pump	Bearing failure in water pump (not gasket related), loose pulley.	This is typically a sign of a failing water pump itself, not the gasket. The water pump may need replacement.

7. SPECIFICATIONS

Key specifications for the FEL-PRO 35987 Engine Water Pump Gasket:

- **Brand:** Fel-Pro
- **Model Number:** 35987
- **Part Type:** Engine Water Pump Gasket
- **Color:** Assorted (typically black or material-specific)
- **Item Weight:** Approximately 0.32 ounces
- **Product Dimensions:** Approximately 9 x 6.5 x 0.4 inches
- **Manufacturer Part Number:** 35987
- **UPC:** 019826513618
- **Global Trade Identification Number (GTIN):** 00019826513618
- **Unit Count:** 1.0 Count
- **Exterior Finish:** Machined
- **First Available Date:** February 7, 2014

8. WARRANTY AND SUPPORT

Fel-Pro is a reputable brand known for quality automotive sealing products. For specific warranty information, technical support, or to contact customer service regarding your FEL-PRO 35987 Engine Water Pump Gasket, please refer to the official Fel-Pro website or contact their customer support directly.

You can visit the official Fel-Pro store page for more information:[Fel-Pro Store on Amazon](#)

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