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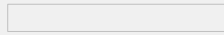
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> FEL-PRO BS 40667 Rear Main Seal Set Instruction Manual

Fel-Pro BS 40667

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Model: BS 40667 | Brand: Fel-Pro



Fel-Pro brand logo, featuring the company name in red with a stylized 'FEL' prefix.

PRODUCT OVERVIEW

The FEL-PRO BS 40667 Rear Main Seal Set is engineered to provide a reliable sealing solution for your vehicle's engine crankshaft. Fel-Pro gaskets are known for their application-specific materials, ensuring performance and durability trusted by professionals.

Key Features:

- Designed specifically for the Mazda Protege engine crankshaft.
- Meets or exceeds all original equipment specifications for fit and function.
- Manufactured with unsurpassed quality for dependable sealing.



Image of the FEL-PRO BS 40667 Rear Main Seal, a circular orange seal designed for engine crankshafts.

COMPATIBILITY AND PRE-INSTALLATION

Before proceeding with installation, it is crucial to verify that the FEL-PRO BS 40667 Rear Main Seal Set is compatible with your specific vehicle. This seal is designed to fit a range of vehicles:

- 1993-1997 Ford Probe
- 1993-1997 Mazda MX-6
- 1993-2002 Mazda 626
- 1999-2000 Mazda Protege
- 2001-2003 Mazda Protege

- 2003-2003 Mazda Protege
- 2002-2003 Mazda Protege5

Always research and confirm compatibility by entering your vehicle's year, make, model, engine, and trim information. Check any qualifier notes provided by your parts supplier.



An image depicting a mechanic's hands holding a blue engine gasket over an engine block, illustrating the context of gasket installation.

INSTALLATION INSTRUCTIONS

Installation of a rear main seal typically requires specialized tools and automotive knowledge. It is recommended that this procedure be performed by a qualified mechanic or an individual with significant experience in engine repair.

1. **Preparation:** Ensure the engine is cool and disconnected from the battery. Drain engine oil if necessary.
2. **Access:** Depending on the vehicle, accessing the rear main seal may require removal of the transmission, flywheel, or oil pan. Consult your vehicle's specific service manual for detailed disassembly steps.
3. **Old Seal Removal:** Carefully remove the old rear main seal. Avoid damaging the crankshaft or engine block surfaces.
4. **Surface Cleaning:** Thoroughly clean the sealing surfaces on both the crankshaft and the engine block. Remove all old gasket material, oil, and debris. A clean surface is critical for proper sealing.
5. **New Seal Installation:** Apply a thin, even coat of clean engine oil or a recommended sealant to the new FEL-PRO seal's lip. Carefully press the new seal into place, ensuring it is seated squarely and fully. Use a seal installation tool if available to prevent damage.
6. **Reassembly:** Reassemble all components in reverse order of removal, adhering to manufacturer's torque specifications for all fasteners.
7. **Post-Installation Check:** Refill engine oil to the correct level. Start the engine and check for any leaks immediately.



A diagram illustrating various engine gaskets and seals, including a main seal, which are part of a comprehensive engine sealing solution.

MAINTENANCE

Rear main seals are designed for long-term durability and typically do not require routine maintenance. However, regular engine maintenance practices contribute to the longevity of all engine components, including seals.

- **Regular Oil Changes:** Ensure engine oil is changed at recommended intervals using the correct type and viscosity of oil. Clean oil helps prevent premature wear on seals.
- **Monitor Oil Levels:** Regularly check your engine oil level. Low oil levels can lead to increased engine temperatures and stress on seals.
- **Address Leaks Promptly:** If any signs of oil leakage are observed around the rear of the engine, it is important to investigate and address them promptly to prevent further damage or fluid loss.

TROUBLESHOOTING

While FEL-PRO seals are manufactured to high standards, issues can occasionally arise. The most common issue with a rear main seal is leakage.

Common Issues and Solutions:

- **Oil Leakage Immediately After Installation:**
 - **Cause:** Improper installation, damaged seal during installation, or contaminated sealing surfaces.
 - **Solution:** Re-inspect the installation. Ensure the seal was not crimped or torn. Verify that the sealing surfaces were perfectly clean and dry before installation. Re-installation with a new seal may be necessary if damage is confirmed.
- **Oil Leakage Developing Over Time:**
 - **Cause:** Normal wear and tear, excessive crankcase pressure, or incorrect engine oil.
 - **Solution:** Check PCV (Positive Crankcase Ventilation) system for proper operation to ensure no excessive pressure builds up. Confirm correct engine oil type and viscosity are used. If the seal is old, replacement may be required.

If you experience persistent issues, it is advisable to consult with a certified automotive technician.

SPECIFICATIONS

Attribute	Value
Manufacturer	FEL-PRO
Brand	Fel-Pro
Model	BS40667
Item Weight	2.08 ounces
Product Dimensions	12 x 6 x 0.5 inches
Country of Origin	Japan
Item Model Number	BS 40667
Manufacturer Part Number	BS40667

WARRANTY AND SUPPORT

Fel-Pro products are manufactured to high-quality standards. For specific warranty information regarding your FEL-

PRO BS 40667 Rear Main Seal Set, please refer to the packaging or visit the official Fel-Pro website.

For technical support, installation inquiries, or warranty claims, please contact Fel-Pro customer service directly. Contact information can typically be found on the product packaging or on the manufacturer's official website.

Online Resources:

- Visit the official Fel-Pro website for product catalogs, technical bulletins, and additional support resources.
- Consult reputable automotive repair forums and communities for shared experiences and tips, but always prioritize manufacturer guidelines.