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> Fel-Pro VS 50604 R Valve Cover Gasket Set Instruction Manual

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Model: VS 50604 R

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Fel-Pro VS 50604 R Valve Cover Gasket Set. Designed for specific vehicle applications, this gasket set ensures a reliable seal for your engine's valve cover, preventing oil leaks and maintaining optimal engine performance. Please read these instructions carefully before proceeding with installation.

2. PRODUCT FEATURES

- **Designed for Imperfect Sealing Surfaces:** Engineered and manufactured specifically for the repair environment to help seal imperfect sealing surfaces.
- **Engineered to Perform:** Features a proprietary cork-rubber formulation for durability and performance.
- **Superior Seal:** Highly conformable to accommodate for imperfect sealing surfaces, ensuring a tight seal.
- **Complete Repair Solution:** Fel-Pro gasket sets include every part needed for the repair unless otherwise noted.
- **Real-World Tested:** Parts are tested on-vehicle and validated to ensure optimal performance on the road.

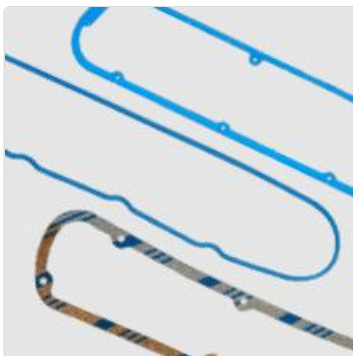


Image: Close-up of the gasket material, highlighting its proprietary cork-rubber formulation for enhanced sealing.

3. WHAT'S IN THE BOX

Your Fel-Pro VS 50604 R Valve Cover Gasket Set includes:

- Valve Cover Gasket Set (specific components may vary by application, but typically includes the main valve cover gasket and any necessary grommets or seals).



Image: A complete Fel-Pro VS 50604 R Valve Cover Gasket Set, showing the main gasket and associated seals.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your valve cover gasket. It is recommended that installation be performed by a qualified automotive technician. If you choose to perform the installation yourself, follow these general guidelines:

1. **Safety First:** Ensure the engine is cool and disconnect the vehicle's battery before starting any work. Wear appropriate personal protective equipment.
2. **Remove Old Gasket:** Carefully remove the existing valve cover and old gasket. Clean all mating surfaces

thoroughly to remove any old gasket material, oil, or debris. A clean surface is essential for a proper seal.

3. **Inspect Surfaces:** Inspect the valve cover and cylinder head mating surfaces for any damage, warpage, or imperfections. Address any issues before installing the new gasket.
4. **Install New Gasket:** Place the new Fel-Pro gasket onto the valve cover or cylinder head, ensuring it is correctly seated. Some gaskets may require a thin bead of RTV sealant at specific corners or junctions, refer to your vehicle's service manual for exact recommendations.
5. **Reinstall Valve Cover:** Carefully place the valve cover back onto the cylinder head, aligning it properly.
6. **Torque Fasteners:** Install the valve cover fasteners and tighten them to the manufacturer's specified torque sequence and values. Overtightening can damage the gasket or valve cover, while undertightening can lead to leaks. Use a torque wrench for accuracy.
7. **Reconnect and Test:** Reconnect any removed components and the battery. Start the engine and check for any leaks around the valve cover.



Image: A mechanic carefully working on an engine, demonstrating the precision required for gasket installation.

5. OPERATING PRINCIPLES

The Fel-Pro VS 50604 R Valve Cover Gasket creates a critical seal between the engine's valve cover and the cylinder head. Its primary function is to prevent engine oil from leaking out of the valve train area, which houses components like rocker arms, camshafts, and valves. A properly functioning gasket ensures that engine oil remains contained, lubricating these vital parts and preventing contamination of other engine components or the environment.

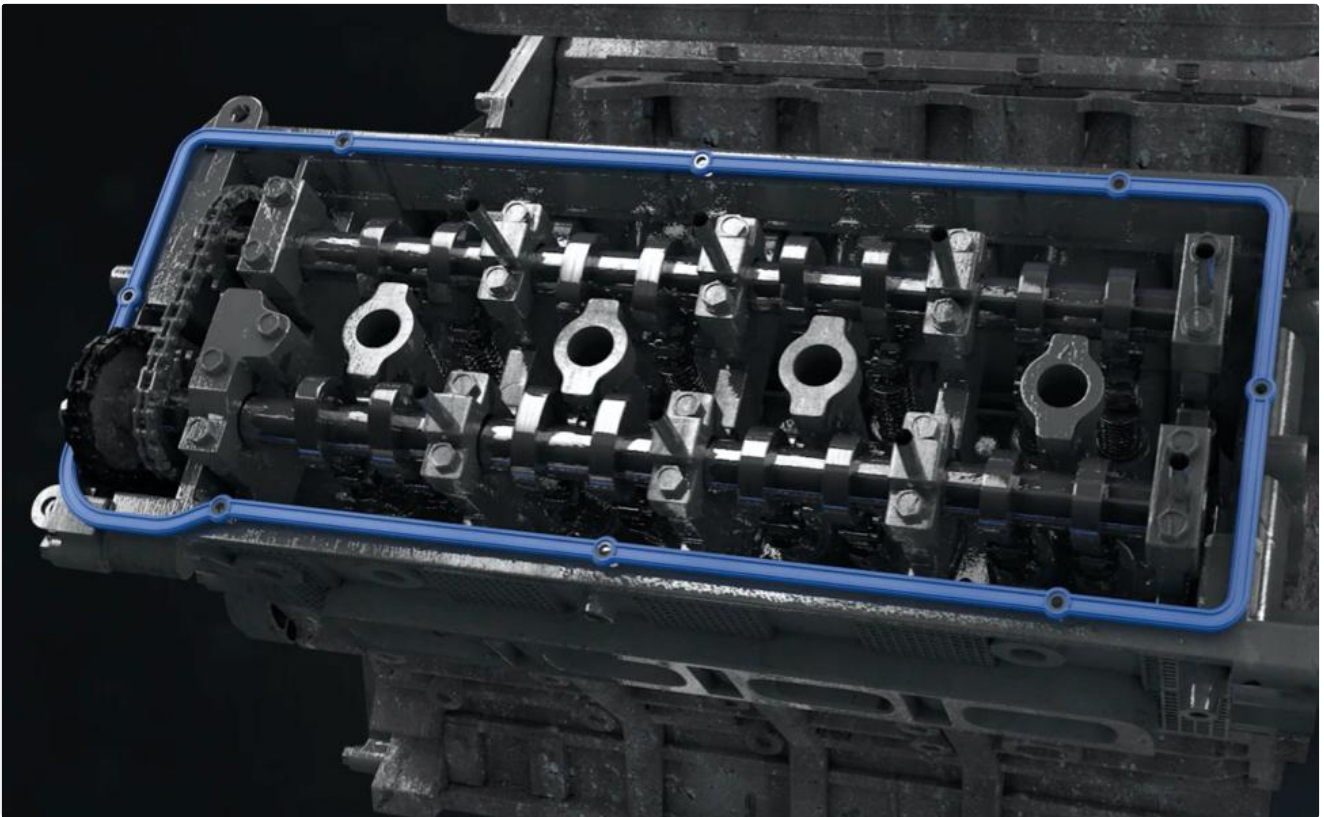


Image: An engine assembly with a blue valve cover gasket clearly visible, illustrating its placement and sealing function.

6. MAINTENANCE

Once installed, the Fel-Pro VS 50604 R Valve Cover Gasket requires minimal maintenance. However, periodic visual inspection is recommended:

- **Regular Checks:** During routine vehicle maintenance (e.g., oil changes), visually inspect the area around the valve cover for any signs of oil leaks or seepage.
- **Address Leaks Promptly:** If any leaks are detected, investigate the cause immediately. Early detection can prevent more significant engine issues or damage.

7. TROUBLESHOOTING

If you experience issues after installing your valve cover gasket, consider the following common troubleshooting steps:

- **Oil Leaks:** The most common issue. Check if the valve cover fasteners are torqued to specification. Inspect the gasket for proper seating and any signs of damage or pinching during installation. Ensure mating surfaces were thoroughly cleaned before installation.
- **Incorrect Gasket Type:** Verify that the correct gasket for your specific vehicle make, model, and engine was installed.
- **Valve Cover Warpage:** A warped valve cover can prevent a proper seal, even with a new gasket. Inspect the valve cover for flatness.
- **PCV System Issues:** A clogged or malfunctioning PCV (Positive Crankcase Ventilation) system can cause excessive crankcase pressure, leading to gasket leaks. Inspect and service the PCV system if necessary.



Image: An oil stain on a garage floor, indicating a potential leak from an engine component like a valve cover gasket.

8. SPECIFICATIONS

Attribute	Detail
Brand	Fel-Pro
Model Number	VS 50604 R
Material	Rubber
Shape	Round (referring to the overall gasket shape, though specific contours exist)
Item Weight	5.3 ounces
Product Dimensions	15.1 x 8 x 0.9 inches
Manufacturer Part Number	VS50604R

9. WARRANTY INFORMATION

Fel-Pro products are manufactured to high-quality standards. For specific warranty details regarding your VS 50604 R Valve Cover Gasket Set, please refer to the official Fel-Pro website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

10. SUPPORT

For technical assistance, installation questions, or product inquiries, please visit the official Fel-Pro website or contact their customer service department. Detailed contact information can typically be found on the product packaging or the manufacturer's website.

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