

Fel-Pro TCS 46089

FEL-PRO TCS 46089 Timing Cover Gasket Set

Instruction Manual
Brand: Fel-Pro

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1. PRODUCT OVERVIEW

The Fel-Pro TCS 46089 Timing Cover Gasket Set is engineered to provide a reliable seal for your vehicle's timing cover. This set includes all necessary gaskets and seals required for a complete timing chain/belt replacement job, ensuring optimal performance and preventing fluid leaks.

Key features include application-specific design for a perfect fit, high-quality materials for durability, and validation for fit, form, and function in the repair environment.





This image displays the complete Fel-Pro TCS 46089 Timing Cover Gasket Set, including the main timing cover gasket, crankshaft seal, and other associated seals and O-rings. These components are crucial for sealing the timing cover and preventing fluid leaks.

2. BEFORE INSTALLATION (SETUP)

Before beginning the installation process, ensure you have all necessary tools and safety equipment. It is recommended to consult your vehicle's specific service manual for detailed instructions pertaining to your make and model.

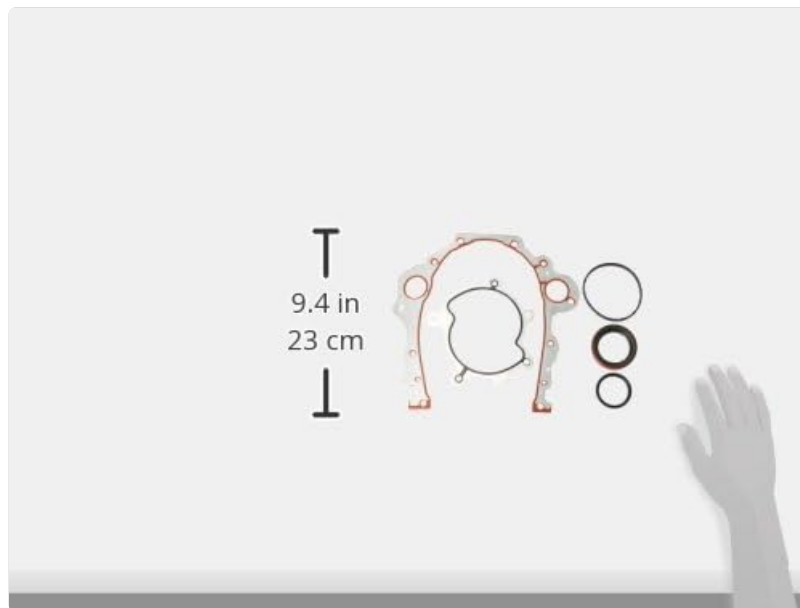
2.1 Required Tools and Materials:

- Socket set and wrenches
- Torque wrench
- Scraper or gasket removal tool

- Brake cleaner or degreaser
- Clean rags
- New engine oil and coolant (if drained)
- Safety glasses and gloves

2.2 Preparation:

1. Ensure the engine is cool before starting any work.
2. Disconnect the vehicle's battery.
3. Drain engine oil and coolant if necessary, as per your vehicle's service manual.
4. Remove all components obstructing access to the timing cover (e.g., accessory belts, pulleys, crankshaft pulley, engine mounts, etc.).
5. Thoroughly clean the mating surfaces on both the engine block and the timing cover. Remove all traces of old gasket material, oil, and debris. A clean surface is critical for a proper seal.



This image illustrates the approximate dimensions of the gasket components, indicating a height of 9.4 inches (23 cm). This information can be useful for verifying the correct part size and for planning installation space.

3. INSTALLATION

Follow these general steps for installing the Fel-Pro TCS 46089 Timing Cover Gasket Set. Always refer to your vehicle's specific service manual for precise torque specifications and sequence.

1. Carefully remove the old timing cover gasket and crankshaft seal. Inspect the timing cover for any damage or warping.
2. Install the new crankshaft seal into the timing cover. Ensure it is seated correctly and not damaged during installation.
3. Position the new Fel-Pro timing cover gasket onto the timing cover or engine block, aligning all bolt holes and passages. Fel-Pro gaskets are designed for precise fitment.
4. Carefully re-install the timing cover onto the engine block. Ensure the gasket remains properly seated.
5. Insert all timing cover bolts and hand-tighten them.
6. Using a torque wrench, tighten the timing cover bolts to the manufacturer's specified torque settings, following the recommended tightening sequence (typically a spiral pattern from the center outwards). **Over-tightening can damage the gasket or cover.**

- 7. Re-install all previously removed components (crankshaft pulley, accessory belts, etc.).
- 8. Refill engine oil and coolant to appropriate levels.
- 9. Reconnect the vehicle's battery.

After installation, start the engine and check for any leaks around the timing cover area. Allow the engine to reach operating temperature and re-check for leaks.

4. MAINTENANCE AND CARE

Once installed, the Fel-Pro timing cover gasket set is designed for long-term durability and sealing performance. Regular vehicle maintenance practices will help ensure its longevity.

- **Regular Inspections:** Periodically inspect the timing cover area for any signs of oil or coolant leaks. Early detection of leaks can prevent more significant issues.
- **Fluid Levels:** Maintain proper engine oil and coolant levels as per your vehicle manufacturer's recommendations. Low fluid levels can indicate a leak.
- **Engine Temperature:** Ensure your engine operates within its normal temperature range. Overheating can put excessive stress on gaskets and seals.

5. TROUBLESHOOTING

Symptom	Possible Cause	Solution
Oil or Coolant Leak from Timing Cover	Improper gasket installation Damaged gasket during installation Mating surfaces not clean Incorrect torque on bolts Warped timing cover	Re-check installation steps. Inspect gasket for damage; replace if necessary. Ensure mating surfaces are thoroughly cleaned. Verify bolt torque and sequence. Inspect timing cover for warping; replace if necessary.
Persistent Leak after Re-installation	Underlying engine issue (e.g., excessive crankcase pressure) Incorrect part for application	Consult a professional mechanic for diagnosis. Verify the part number (TCS 46089) is correct for your vehicle.

6. SPECIFICATIONS

- **Part Number:** TCS 46089
- **Brand:** Fel-Pro
- **Material:** Silicone
- **Color:** Assorted
- **Item Weight:** 4.5 ounces
- **Product Dimensions:** 11 x 11 x 0.44 inches
- **UPC:** 614046894990

- **Application:** Timing cover sealing for specific vehicle models (refer to Fel-Pro catalog for exact fitment).

7. WARRANTY AND SUPPORT

Fel-Pro gaskets are manufactured to high-quality standards. For specific warranty information, please refer to the official Fel-Pro website or contact their customer support directly. Keep your purchase receipt as proof of purchase.

7.1 Contact Information:

For technical assistance, product inquiries, or warranty claims, please visit the official Fel-Pro website or contact their customer service department. Contact details are typically available on the manufacturer's packaging or website.

Fel-Pro Official Website: www.felpro.com

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