

[Manuals.plus](#) /

› [Fel-Pro](#) /

› Fel-Pro 17030 Engine Cylinder Head Gasket Instruction Manual

Fel-Pro 17030

Fel-Pro 17030 Engine Cylinder Head Gasket Instruction Manual

Model: 17030

[Introduction](#) [Features](#) [Compatibility](#) [Installation](#) [Specifications](#) [Support](#)

1. INTRODUCTION

The Fel-Pro 17030 Engine Cylinder Head Gasket is engineered to provide reliable sealing for your vehicle's engine. This gasket is designed with application-specific materials to ensure performance and durability, particularly in environments where sealing surfaces may not be perfect. This manual provides essential information regarding the product's features, proper application, and general care.

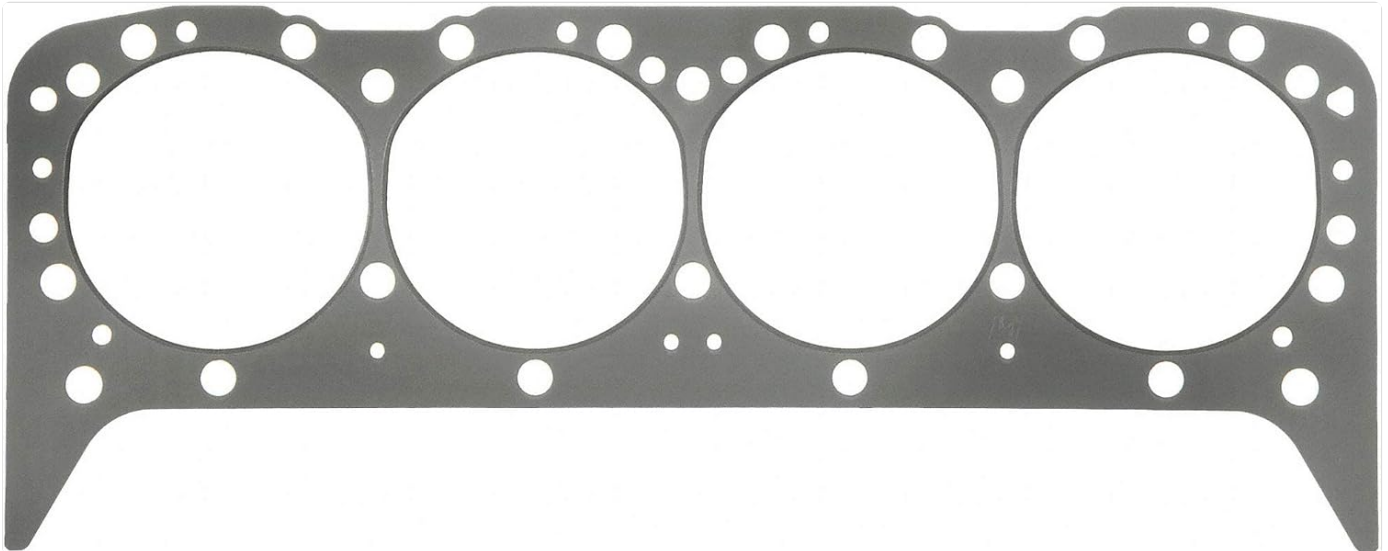


Image 1.1: The Fel-Pro 17030 Engine Cylinder Head Gasket, designed for engine sealing.

2. PRODUCT FEATURES

The Fel-Pro 17030 Head Gasket incorporates several design elements to ensure effective and lasting sealing:

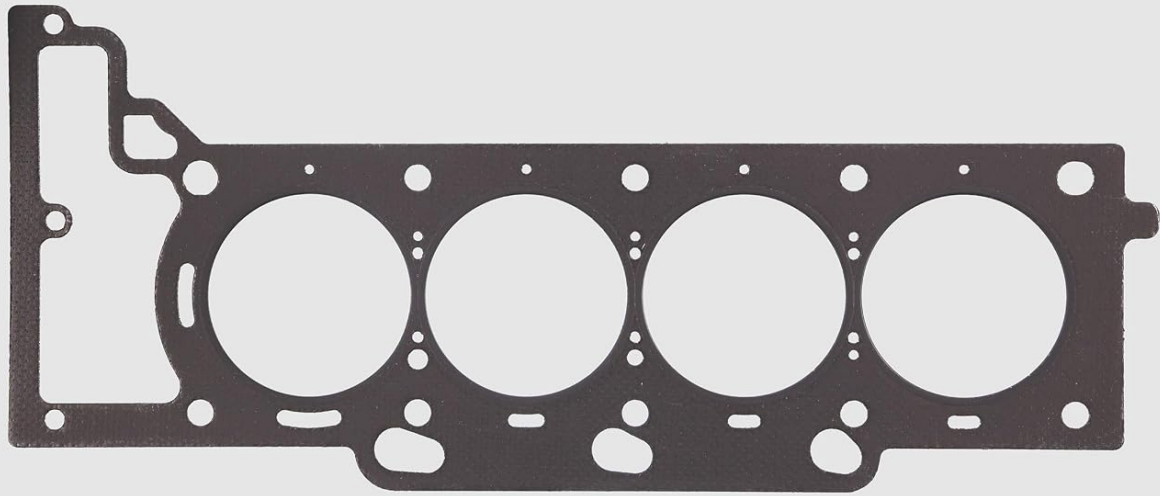
- **Proprietary Coating:** Features a nonstick anti-friction coating that helps seal small surface scratches and

imperfections on mating surfaces.

- **Sealing Technologies:** Utilizes exclusive sealing innovations and technologies with proprietary materials and unique design features to ensure a superior seal for your repair.
- **No Retorque Design:** Constructed with a steel core that helps eliminate the need for retorquing head bolts after initial installation.
- **Strong and Durable:** Incorporates graphite or reinforced fiber facing material and steel armor for enhanced strength and durability under engine operating conditions.
- **Designed for Imperfect Sealing Surfaces:** Engineered and manufactured specifically for the repair environment to effectively seal surfaces that may not be perfectly flat or smooth.



Image 2.1: Illustration highlighting the gasket's design for imperfect sealing surfaces.



SEALING **TECHNOLOGIES**

Exclusive sealing innovations and technologies with proprietary materials and unique design features to ensure a superior seal for your repair

Image 2.2: Visual representation of the advanced sealing technologies integrated into the gasket.



PROPRIETARY COATING

Nonstick anti-friction coating seals small surface scratches and imperfections

Image 2.3: Close-up view of the gasket's proprietary coating.



NO RETORQUE DESIGN

Steel core helps eliminate the need for retorquing head bolts

Image 2.4: Detail showing the 'no retorque' design feature of the gasket.

3. VEHICLE COMPATIBILITY

It is crucial to verify that the Fel-Pro 17030 Head Gasket is compatible with your specific vehicle before purchase and installation. To ensure proper fitment, research and enter all vehicle information, including year, make, model, engine, and trim. Always check any qualifier notes provided by the manufacturer or supplier.

4. INSTALLATION GUIDELINES

Installation of a head gasket is a complex procedure that typically requires specialized tools and automotive knowledge. It is highly recommended that installation be performed by a qualified professional mechanic.

General Steps (Professional Installation Recommended):

1. **Preparation:** Ensure the engine is cool and disconnected from the battery. Drain coolant and oil as necessary.
2. **Disassembly:** Carefully remove components obstructing access to the cylinder head, including intake manifold, exhaust manifold, valve cover, and cylinder head bolts.
3. **Surface Cleaning:** Thoroughly clean both the engine block and cylinder head mating surfaces. Remove all old gasket material, carbon deposits, and debris. Ensure surfaces are free of oil, grease, and coolant.
4. **Inspection:** Inspect cylinder head and block surfaces for warpage, cracks, or significant damage. Address any issues before proceeding.
5. **Gasket Placement:** Carefully position the new Fel-Pro 17030 Head Gasket onto the engine block, ensuring all bolt holes and passages align correctly. Do not use additional sealants unless specifically instructed by the engine or gasket manufacturer.
6. **Cylinder Head Installation:** Carefully lower the cylinder head onto the gasket and engine block.
7. **Torquing:** Install new cylinder head bolts (if required by manufacturer) and tighten them to the vehicle manufacturer's specified torque sequence and values. Follow the recommended multi-stage torquing procedure precisely.
8. **Reassembly:** Reinstall all removed components, ensuring proper connections and torque specifications are met.
9. **Fluid Refill and Testing:** Refill engine with appropriate coolant and oil. Bleed the cooling system. Start the engine and check for leaks or abnormal operation.



Image 4.1: A head gasket being positioned on an engine block during installation.

5. FUNCTION AND OPERATION

The head gasket is a critical component located between the engine block and the cylinder head. Its primary function is to seal the combustion chambers, preventing the escape of combustion gases, and to seal the coolant and oil passages, preventing their intermixing or leakage to the outside. A properly installed Fel-Pro 17030 Head Gasket ensures optimal engine compression, efficient cooling, and effective lubrication, all vital for engine performance and longevity.

6. MAINTENANCE TIPS

While the Fel-Pro 17030 Head Gasket is designed for durability and a no-retorque installation, general engine maintenance practices contribute to its longevity:

- **Maintain Proper Cooling System:** Ensure your engine's cooling system is functioning correctly, with adequate coolant levels and a healthy radiator, water pump, and thermostat. Overheating is a primary cause of head gasket failure.

- **Regular Oil Changes:** Adhere to your vehicle's recommended oil change schedule to prevent sludge buildup and ensure proper lubrication, which indirectly supports gasket integrity.
- **Monitor Engine Temperature:** Pay attention to your vehicle's temperature gauge. If the engine consistently runs hot, investigate the cause promptly.
- **Address Leaks Promptly:** Any signs of coolant or oil leaks should be investigated and repaired to prevent further damage.

7. TROUBLESHOOTING COMMON ISSUES

A failing head gasket can manifest in several ways. If you observe any of the following symptoms, consult a qualified mechanic for diagnosis and repair:

- **White Smoke from Exhaust:** May indicate coolant burning in the combustion chamber.
- **Engine Overheating:** A common symptom, often due to coolant loss or combustion gases entering the cooling system.
- **Coolant Loss without Visible Leaks:** Coolant may be entering the combustion chambers or oil system.
- **Milky White Oil (Oil/Coolant Mix):** Indicates coolant mixing with engine oil, often visible on the dipstick or inside the oil filler cap.
- **Bubbles in Radiator or Coolant Reservoir:** Suggests combustion gases are leaking into the cooling system.
- **Reduced Engine Performance:** Loss of compression can lead to misfires, rough idling, and decreased power.

8. SPECIFICATIONS

Attribute	Detail
Brand	Fel-Pro
Model Number	17030
Material	Graphite, Nonstick, Steel
Color	Assorted
Shape	Round (referring to cylinder openings)
Item Weight	0.01 ounces
Product Dimensions	26.75 x 11 x 0.03 inches
UPC	841131703008, 084113170300
Manufacturer Part Number	17030

9. WHAT'S IN THE BOX

The Fel-Pro 17030 package typically includes:

- 1x Fel-Pro 17030 Engine Cylinder Head Gasket

10. WARRANTY AND SUPPORT

For specific warranty information, technical support, or inquiries regarding the Fel-Pro 17030 Engine Cylinder Head Gasket, please contact Fel-Pro customer service directly or visit their official website. Keep your purchase receipt as proof of purchase.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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