

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [COMETIC](#) /

› [Cometic Gasket C4634-027 Head Gasket Instruction Manual](#)

COMETIC C4634-027

Cometic Gasket C4634-027 Head Gasket Instruction Manual

Model: C4634-027

1. PRODUCT OVERVIEW

The Cometic C4634-027 Head Gasket is a high-performance multi-layer steel (MLS) gasket designed for Honda F20B 2.0L engines with an 86mm bore, specifically for models manufactured between 1997 and 2001. This gasket features a thickness of 0.027 inches.

It is comprised of multiple embossed layers of stainless steel, with the outer layers utilizing a Viton rubber coating. This construction ensures increased strength, superior rebound capabilities, and excellent resistance to corrosion, making it a reliable component for demanding engine applications. This product is manufactured in the United States.

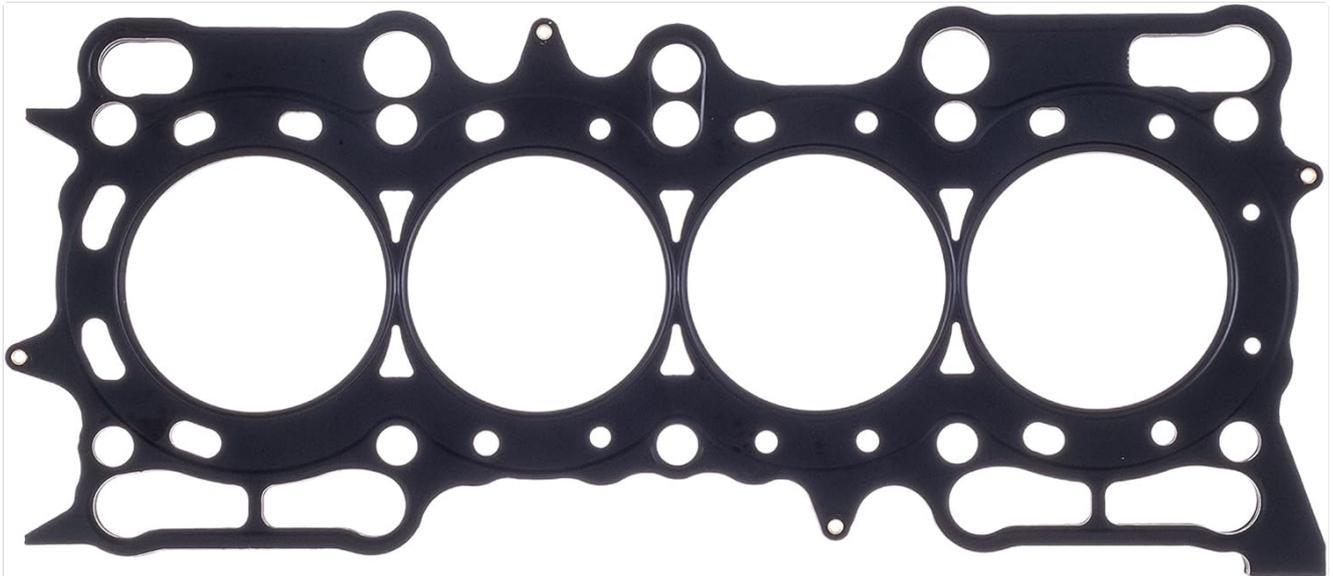


Image 1.1: Cometic C4634-027 Multi-Layer Steel Head Gasket. This image shows the intricate design of the gasket, highlighting the individual cylinder bores and fluid passages.

2. SAFETY INFORMATION

Always prioritize safety when working with automotive components. Ensure the engine is cool and depressurized before beginning any work. Wear appropriate personal protective equipment, including gloves and eye protection. Consult a professional mechanic if you are unsure about any installation steps.



Image 2.1: California Proposition 65 Warning. This warning indicates that certain chemicals used in the manufacture of this product may be known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.p65Warnings.ca.gov.

3. SETUP AND INSTALLATION

Installing a head gasket is a critical engine repair that requires precision and specialized tools. It is highly recommended that installation be performed by a qualified automotive technician.

General Installation Guidelines:

- Surface Preparation:** Ensure both the cylinder head and engine block surfaces are meticulously clean, flat, and free of any debris, old gasket material, or imperfections. Any surface irregularities can compromise the gasket's seal.
- Gasket Orientation:** Carefully place the Cometic head gasket onto the engine block, ensuring correct orientation. The gasket is designed to fit only one way.
- Cylinder Head Placement:** Gently lower the cylinder head onto the engine block, aligning it precisely with the gasket and dowel pins.
- Torque Specifications:** Install new cylinder head bolts (if recommended by the engine manufacturer) and tighten them according to the engine manufacturer's specific torque sequence and specifications. This typically involves multiple stages of tightening to achieve proper clamping force. Refer to your vehicle's service manual for exact torque values and patterns.
- Fluid Refill:** After installation, refill the engine with the appropriate coolant and engine oil to their correct levels.
- System Bleeding:** Properly bleed the cooling system to remove any trapped air, which can cause overheating.

Note: The Cometic MLS gasket design does not typically require sealants or coatings, as the Viton rubber coating on the outer layers provides an excellent seal. Always follow the engine manufacturer's guidelines for head gasket replacement.

4. OPERATING PRINCIPLES

The head gasket is a crucial component that seals the combustion chambers and prevents leakage of combustion gases, engine coolant, and engine oil between the cylinder head and the engine block. Its primary functions include:

- Sealing Combustion:** Containing the high pressures and temperatures generated during the combustion process within each cylinder.
- Coolant Passage Sealing:** Preventing coolant from entering the combustion chambers or mixing with engine oil.
- Oil Passage Sealing:** Preventing engine oil from entering the combustion chambers or mixing with coolant.
- Structural Integrity:** Contributing to the overall structural integrity of the engine assembly.

The multi-layer steel construction of the Cometic C4634-027 gasket provides superior sealing capabilities under extreme engine conditions, ensuring optimal engine performance and longevity when installed correctly.

5. MAINTENANCE

Once properly installed, the Cometic C4634-027 Head Gasket is designed to be a maintenance-free component for the lifespan of the engine under normal operating conditions. However, the longevity and performance of the head

gasket are directly related to the overall health and maintenance of the engine.

Recommendations for Engine Health:

- **Regular Coolant Checks:** Ensure the cooling system is properly maintained, with correct coolant levels and a healthy coolant mixture. Overheating is a primary cause of head gasket failure.
- **Oil Changes:** Adhere to the manufacturer's recommended oil change intervals and use the specified engine oil to ensure proper lubrication and temperature regulation.
- **System Integrity:** Periodically inspect hoses, radiator, and other cooling system components for leaks or damage.
- **Avoid Overheating:** Address any signs of engine overheating immediately to prevent damage to the head gasket and other engine components.

6. TROUBLESHOOTING

A properly installed Cometec head gasket should provide a reliable seal. If you experience any of the following symptoms, it may indicate a potential issue with the head gasket or other engine components. Professional diagnosis is strongly recommended.

Common Symptoms of Head Gasket Issues:

- **Engine Overheating:** Persistent or frequent overheating, even after checking coolant levels and radiator function.
- **White Smoke from Exhaust:** A steady stream of white smoke, especially upon startup, can indicate coolant burning in the combustion chamber.
- **Sweet Smell from Exhaust:** The smell of burning coolant.
- **Coolant Loss:** Unexplained loss of coolant without visible external leaks.
- **Oil in Coolant / Coolant in Oil:** A milky, frothy substance in the oil (often on the dipstick or oil filler cap) or oil droplets in the coolant reservoir.
- **Reduced Engine Performance:** Misfires, rough idling, or loss of power due to compromised compression.
- **Bubbles in Radiator/Coolant Reservoir:** Bubbles appearing in the coolant reservoir while the engine is running, indicating combustion gases entering the cooling system.

If any of these symptoms are observed, cease engine operation and seek immediate professional assistance to prevent further engine damage.

7. SPECIFICATIONS

Feature	Specification
Brand	COMETEC
Model Number	C4634-027
Application	Honda F20B 2.0L (86mm Bore, 1997-2001)
Material	Multi-Layer Stainless Steel with Viton Coating

Thickness	0.027 inches
Shape	Engine Specific (Round bore openings)
Item Weight	9.6 ounces
Manufacturer	Cometic Gasket
UPC	191070081492

8. WARRANTY INFORMATION

Specific warranty details for the Cometic Gasket C4634-027 are provided by the manufacturer. For comprehensive information regarding warranty coverage, terms, and conditions, please refer to the official Cometic Gasket website or contact their customer service directly. It is important to retain your proof of purchase for any warranty claims.

9. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support related to the Cometic Gasket C4634-027, please contact Cometic Gasket customer service. They can provide expert guidance on installation, product specifications, and troubleshooting.

Please visit the official Cometic Gasket website for contact information, including phone numbers, email addresses, and support resources.