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› [GOWE](#) /

› GOWE Cylinder Head for Sofim 8140.23 User Manual

GOWE GWE-20002638

GOWE Cylinder Head User Manual

MODEL: SOFIM 8140.23 (GWE-20002638)

1. Introduction

This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of the GOWE Sofim 8140.23 Cylinder Head. This component is designed for specific vehicle models and engine types to ensure optimal performance and longevity.

The GOWE Sofim 8140.23 Cylinder Head is compatible with the following vehicles and engine specifications:

- Fiat Ducato 2799cc 2.8TDi SOHC 8v (1996-)
- Iveco Daily/New Daily 2799cc 2.8TDi 8v (1996- or 1986-)
- Opel Movano 2799cc 2.8TDi 8v (1999-)
- Renault Master/Mascott/Safrane/Traffic 2799cc 2.8TDi SOHC 8v (1997-)
- Vauxhall Movano 2799cc 2.8TDi 8v (1997-)

Always refer to your vehicle's specific service manual for detailed procedures and torque specifications.

2. Installation

Installation of a cylinder head is a complex procedure that requires specialized tools, knowledge, and experience. It is highly recommended that installation be performed by a certified professional mechanic.

2.1 Pre-Installation Checks

- Inspect the new cylinder head for any signs of shipping damage.
- Verify that the cylinder head matches the correct part number and specifications for your vehicle's engine (OEM: 500355509/99443889/99432835/7701470777/4403201, AMC: 908 587, Engine: Sofim 8140.23 2799cc 2.8TDi SOHC 8v).
- Ensure all mating surfaces on the engine block and the new cylinder head are clean, dry, and free of debris or old gasket material.
- Confirm that all necessary gaskets, bolts, and seals are available and are of the correct type for the installation.

2.2 Installation Procedure Overview

The following is a general overview. **Do not proceed without consulting a detailed service manual for your specific**

vehicle.

1. Carefully position the new cylinder head gasket onto the engine block, ensuring correct orientation.
2. Gently lower the GOWE cylinder head onto the engine block, aligning it with the dowel pins.
3. Install the cylinder head bolts. Follow the manufacturer's specified tightening sequence and torque specifications precisely. This is critical to prevent warping and ensure proper sealing.
4. Install camshafts, valves, and other internal components if they were removed or are new. Ensure correct timing.
5. Reconnect all associated engine components, including intake manifold, exhaust manifold, fuel system, cooling system hoses, electrical connectors, and vacuum lines.
6. Refill engine fluids (coolant, oil) to appropriate levels.
7. Perform a thorough inspection for any leaks or loose connections before starting the engine.

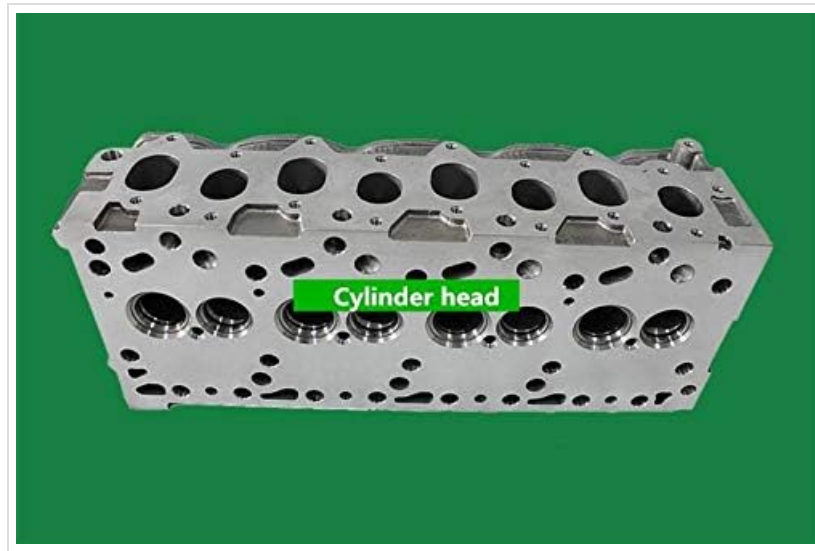


Image 1: Top view of the GOWE Sofim 8140.23 Cylinder Head. This image displays the machined surface that mates with the engine block, along with the various bolt holes, coolant passages, and valve seats. The green label "Cylinder head" is visible on the surface.

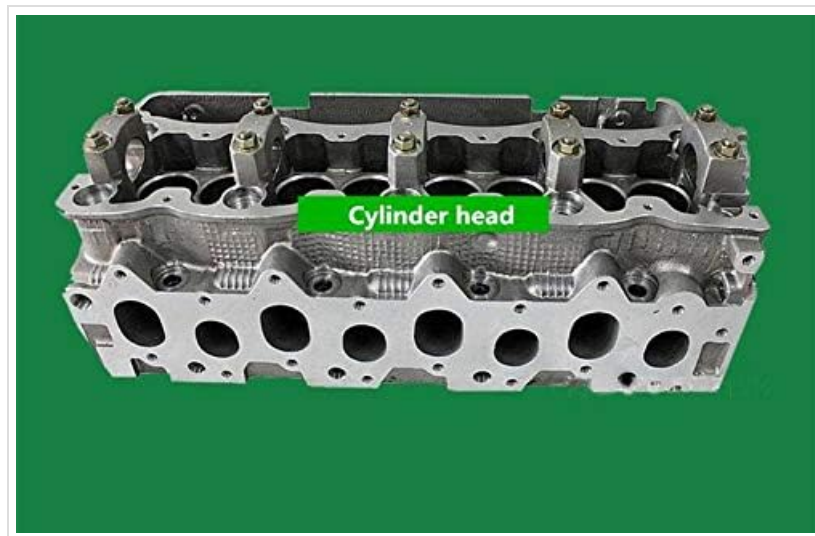


Image 2: Side view of the GOWE Sofim 8140.23 Cylinder Head. This perspective highlights the camshaft bearing caps and the exhaust manifold ports, providing a clearer view of the head's overall structure and casting. The green label "Cylinder head" is visible on the top surface.

3. Operation

Once properly installed, the cylinder head functions as an integral part of the engine's combustion system. Its correct operation relies on the overall health and proper functioning of the engine.

3.1 Post-Installation Engine Start-up

1. After installation, perform an initial engine start-up. Monitor for any unusual noises, vibrations, or warning lights.
2. Allow the engine to reach operating temperature, carefully observing the coolant temperature gauge.
3. Check for any fluid leaks (oil, coolant) around the cylinder head and associated components.
4. Perform a test drive to confirm proper engine performance and responsiveness.

3.2 Normal Engine Operation

The cylinder head is designed to withstand the high temperatures and pressures of engine combustion. Proper engine operation, including maintaining correct fluid levels and avoiding prolonged overheating, is crucial for the longevity of the cylinder head and the entire engine.

4. Maintenance

Regular maintenance of your vehicle's engine is essential for the long-term performance and durability of the cylinder head.

- **Cooling System:** Ensure the cooling system is always filled with the correct type and concentration of coolant. Regularly inspect hoses, radiator, and water pump for leaks or damage. An efficient cooling system prevents overheating, which is a primary cause of cylinder head damage.
- **Oil Changes:** Adhere to the manufacturer's recommended oil change intervals and use the specified engine oil. Clean oil helps lubricate critical components within the cylinder head, such as camshafts and valve train.
- **Timing Belt/Chain:** If your engine uses a timing belt or chain, ensure it is replaced according to the vehicle manufacturer's schedule. Incorrect timing can lead to severe internal engine damage, including cylinder head components.
- **Valve Clearance (if applicable):** For engines requiring periodic valve clearance adjustments, ensure these are performed as per the vehicle service manual to maintain optimal engine performance and prevent valve train wear.

5. Troubleshooting

If you experience issues after cylinder head installation or during normal operation, consider the following common problems and general diagnostic steps. **Always consult a professional mechanic for accurate diagnosis and repair.**

5.1 Overheating

- **Symptom:** Engine temperature gauge reads high, steam from engine bay, coolant boiling.
- **Possible Causes:** Low coolant level, faulty thermostat, clogged radiator, malfunctioning cooling fan, air in cooling system, faulty water pump, blown head gasket.
- **Action:** Safely pull over, turn off engine. Allow to cool. Check coolant level. Do not open radiator cap when hot. Seek professional assistance.

5.2 Coolant or Oil Leaks

- **Symptom:** Visible fluid drips under the vehicle, sweet smell (coolant), burning oil smell.
- **Possible Causes:** Improperly torqued head bolts, damaged head gasket, cracked cylinder head, faulty seals or hoses.
- **Action:** Identify the source of the leak. Small leaks can worsen quickly. Address immediately to prevent further engine damage.

5.3 Engine Performance Issues

- **Symptom:** Misfires, reduced power, rough idle, excessive exhaust smoke.

- **Possible Causes:** Incorrect valve timing, bent valves, worn valve guides/seats, cracked cylinder head, faulty fuel injectors, spark plugs, or ignition coils.
- **Action:** A diagnostic scan tool can help identify specific cylinder misfires or sensor faults. Professional diagnosis is recommended.

6. Specifications

Attribute	Detail
Brand	GOWE
Model Number	GWE-20002638
Engine Compatibility	Sofim 8140.23 2799cc 2.8TDi SOHC 8v
OEM Part Numbers	500355509, 99443889, 99432835, 7701470777, 4403201
AMC Part Number	908 587
Item Weight	2.2 pounds
First Available	August 13, 2017

7. Warranty and Support

For specific warranty information regarding your GOWE Sofim 8140.23 Cylinder Head, please refer to the documentation provided at the time of purchase or contact the seller directly. General return policies may apply, such as the 30-day return policy mentioned for this product.

For technical support, installation queries, or any other assistance, please contact the GOWE customer support or the authorized reseller from whom the product was purchased. Provide your model number (GWE-20002638) and purchase details for faster service.

You can visit the GOWE Store for more information:[GOWE Official Store](#)

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Details

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