

159

TECHNICAL REPORT

Application of sealant on
cylinder head gasket reference
10201600



01 introduction

The cylinder head gasket with part number 10201600 is used in several models from **Hyundai and Kia** brands, mainly in gasoline 4-cylinder engines (G4AG, G4UG, G4LA) between the years 2008 and 2021.

This report aims to highlight the need to apply sealant in a specific area of the gasket to ensure **effective sealing** and prevent oil leakage during engine operation.

02 materials and tools

What do we need for cylinder head gasket replacement?

- 01 | New cylinder head gasket 10201600.
- 02 | Manufacturer's specified torque settings.
- 03 | Ajusil sealant 75000100 (200 ml) or 75000200 (75 ml).
- 04 | Torque wrench.
- 05 | Hex socket and disassembly/assembly tools.
- 06 | Residue-free cleaning solvent.



reference 10201600

03 preparation

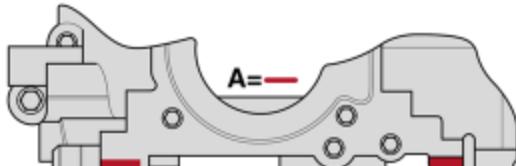
- 01. Make sure the cylinder head and block surfaces are completely **clean, flat, and free** of remnants from the previous gasket.
- 02. Use a **suitable solvent** to remove oil, coolant, or dirt residues.
- 03. Check that the gasket is in **perfect condition**, without deformations or damage.

03 assembly

01. Place the cylinder head gasket in position on the engine block, aligning the coolant and oil passages.

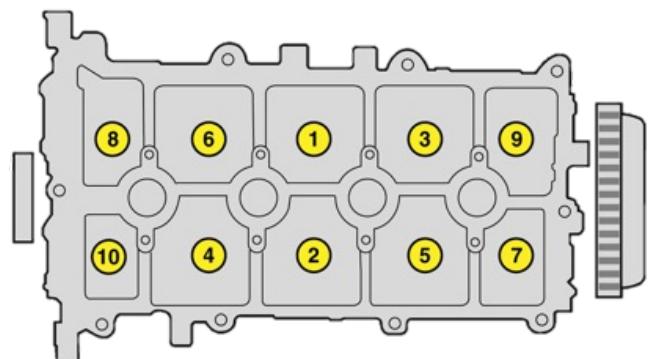
2. Apply a 2-3 mm diameter bead of Ajusil sealant to the area marked in red (see image), on both sides of the gasket.

Sealant usage **must be moderate**. Excessive application may block oil or coolant passages.



03. Install the cylinder head and tighten it following the sequence and torque values indicated below (Ajusa bolts set 81056300):

- 1) 15 Nm
- 2) 93°
- 3) 123°



04 failure reasons

The main causes of failure could be a **lack of sealant in critical areas**, as this could lead to external oil leaks. The **surface could be dirty** or covered with debris, preventing the gasket from seating properly.

Finally, **incorrect tightening** or improper re-tightening of cylinder head bolts. This causes uneven stresses that affect sealing.

05 final recommendations

It's very important to keep in mind that **you should never reuse a cylinder head gasket**, even if it appears to be in good condition. The same goes for bolts. New bolts must be used in applications requiring angular tightening, like the one in this case.

In addition, we must check the flatness of the cylinder head and block before assembly, especially in engines prone to thermal deformation.

06 contact

Do you have questions about any of the assembly steps? Contact our **technical support department** before installing, and we'll advise you and guide you through the steps to follow.



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