

0011 Technical Service Information

Concerns:	61-37190-10 / 03-37195-01 61-34190-10 / 03-34195-01
Make:	MERCEDES BENZ
Model:	Actros
Engine code:	OM 500 engine series V6 and V8 engines

Differentiation of the cylinder head and cylinder head gasket in the OM 500 model line

Modified cylinder heads have been used in the OM 500 engine series starting in 2004, or engine number 357749.

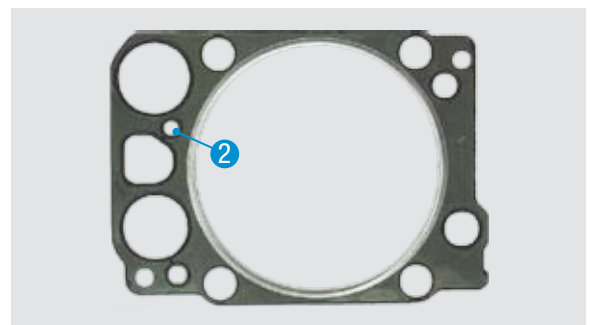
While previous cylinder heads featured a smooth sealing surface, the modified version features a groove cut around the water or hydraulic oil bores. Meanwhile, the cylinder head gasket was also adapted and the sealing potential increased.

Distinguishing features:

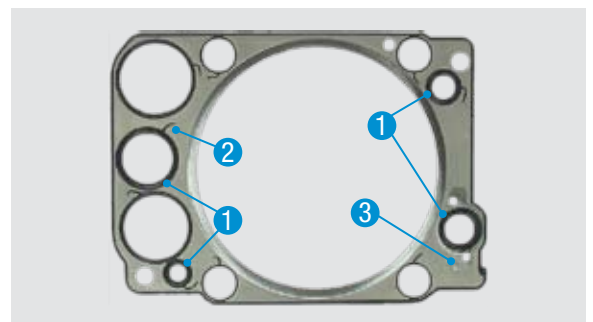
The main distinguishing features of the cylinder head gaskets are the approx. 3 mm higher rubber sealing lips of the water and hydraulic oil bore holes **(1)**, the lack of a hole on the water duct **(2)**, and a protective metal ring on the rubber sealing element **(3)** (water duct / exhaust side).

Repair notes:

The engine number is used to distinguish the cylinder heads and the cylinder head gasket. In combination (cylinder head and gasket), however, these parts are also compatible with older engines up to engine no. 357748. For this reason, attention must be given during repairs to which cylinder head is built in. Please always ensure that the cylinder head gasket or repair set fits the cylinder head. Errors here may lead to engine damage. During repairs, ensure that the sealing surface is smooth; indentations or component deformations must always be eliminated.



Smooth sealing surface, 61-34190-10



Sealing surface with cut in grooves, 61-37190-10

VICTOR REINZ – the easiest way to get a good gasket.

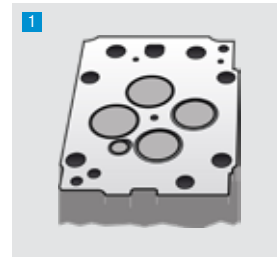
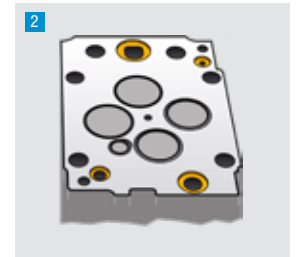
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Classification

 Cylinder head with a smooth sealing surface **1**
61-34190-10 (standard CHG) or **03-34195-01** (repair set)

Up to engine No.: 357748

 Cylinder head with cut groove **2**
61-37190-10 (standard CHG) or **03-37195-01** (repair set)

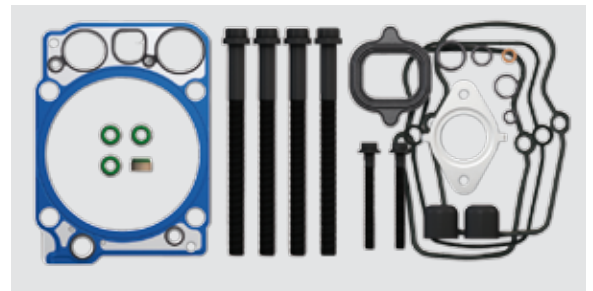
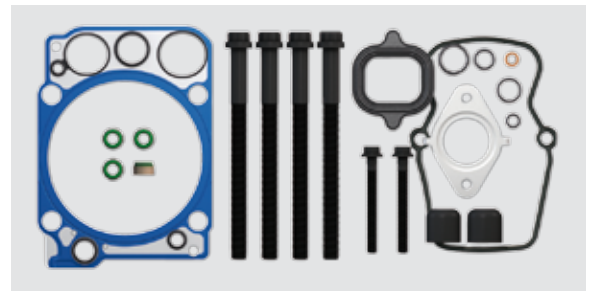
Starting with engine No.: 357749


Smooth sealing surface

Sealing surface with cut in grooves
Two-layer cylinder head gasket from VICTOR REINZ

The topographical two-layer cylinder head gasket has the integrated function of an inductively hardened cylinder head. Elevation of the combustion chamber frame between the cylinder head bolts improves distribution of the compression. The doubled combustion chamber sealing with additional protection of the elastomer against destruction by hot gas also guarantees superior sealing potential and prevents wear to the sealing surface of the cylinder head.

Repair solution for a damaged sealing surface at the cylinder head: the hardened surface is removed during processing of the sealing surface. A previously damaged cylinder head normally must be replaced by a new, hardened one. By using the topographical cylinder head gasket from VICTOR REINZ, the old cylinder head can frequently be reinstalled after being professionally processed. This helps avoid higher costs.

Repair sets for all model line OM 500 engines are assembled for optimal engine repair or overhaul. Universal fit for all engines.


*Gasket set for engines up to engine No. 357748
or smooth sealing surface, 03-34195-01*

*Gasket set for engines starting from engine No. 357749, or
sealing surface with cut in grooves, 03-37195-01*
VICTOR REINZ – the easiest way to get a good gasket.