

TECHNICAL REPORT

Selection of rocker cover gasket in Mercedes-Benz engines according height adjustment and / or differential locking

PURPOSE

Inform about the Rocker Cover Gasket that must be installed in Mercedes-Benz vehicles, depending if they have **height adjustment of the suspension and / or differential locking**.

DEVELOPMENT



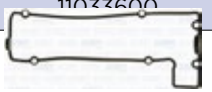
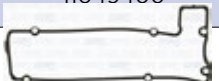
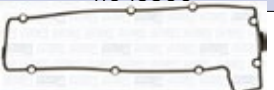

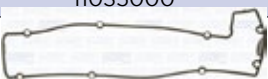
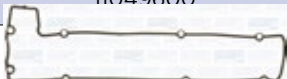
The Mercedes-Benz Brand, in model W124, introduced a series of improvements that were a qualitative leap compared to previous models.

Two of these improvements were **the hydraulic suspension**, which allows to regulate the height of the vehicle, and the **hydraulic differential locking**.

Both systems **operate by a hydraulic system**, and to generate the required oil pressure its provided by a radial piston pump which rotates in conjunction with the camshaft

For that reason, the Rocker Cover Gasket differs from those vehicles that have the mentioned systems and those who not. In the general catalog, **Ajusa makes a difference between vehicles with height adjustment and vehicles without height adjustment**.

In this way, the engines with height adjustment can be seen in the following table:

WITHOUT HEIGHT ADJUSTMENT	ENGINE CODE	DISPLACEMENT	WITH HEIGHT ADJUSTMENT
11032800 	MB102	1797 / 1996 / 2299	11000500 
11033600 			11049400 
11049500 	MB602	2497	11033000 
11035000 	MB603	2996	11049600 

In the following pictures, we can see the differences between **engines with height adjustment and / or differential locking, and one without adjustment** in a Mercedes-Benz 300 D, Engine: MB602,



Engine without Height Adjustment and / or differential locking
11035000



Engine with Height Adjustment and / or differential locking
11049600

In the first picture, (for engines without reg. Height) the Rocker Cover Gasket **must close the pump passage**, however, for an engine with reg. Height the passage it's not needed to be closed.