



**SERVICEINFO**

**AIC** Germany  
Automotive Components

**CYLINDER HEAD COVER**

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Causes of wear of the cylinder head cover

## The cylinder head cover, also called valve cover, belongs to the cylinder head of a four-stroke engine.

It is mounted on the cylinder head. This shields the intake and exhaust valves, springs, control elements and the camshaft. Some engines even have the upper actuating elements of the engine control, as well as the valves of the crankcase ventilation.

**It is intended to prevent the escape of lubricating oil and the entry of air into the engine and to protect it from dirt and other external influences.**

That's why the cylinder head cover must always remain well connected to the cylinder head and also seal well. The seal sits between them and is nowadays made almost exclusively of rubber or plastic to ensure elasticity. This is important because vibrations from the engine can cause other parts to vibrate.

In the attached Excel list you will find an overview of all cylinder head covers from AIC including vehicle applications.



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### CONSPICUITIES ON THE VEHICLE

The following things could be related to a defective cylinder head cover:

- the vehicle leaks oil
- oil smell in running condition
- engine runs unevenly



### CAUSES

To blame for the above-mentioned anomalies are usually:

- a leaky seal
- clogged valves for crankcase ventilation
- tearing of the cylinder head cover receptacles due to aging or incorrect assembly



### INSTALLATION NOTE

If you notice any of the above damage to the cylinder head cover, do not hesitate to replace it with a new one. In most cases, the repair of the hood also includes the replacement of the seals. If these signs are ignored, the vehicle may even suffer engine damage in extreme cases.