



TIMING BELT: PART OF THE MOTOR CONTROL

COOLING | 15001

Information

The timing belt is a basic component of the engine control system. It performs the important function of synchronizing the crankshaft with the two camshafts and transmitting the rotary motion of the crankshaft to the camshafts. By transmitting the rotational force to the camshafts, the valves inside the cylinder head are controlled, ensuring optimal combustion inside the engine compartment.

The timing belt is usually made of rubber, polyurethane or synthetic rubber. For increased durability, glass fiber, aramid or nylon fabric is also incorporated into the belt. Since the timing belt is exposed to large forces due to engine movement, signs of wear become visible after a certain period of time. The first symptoms of wear are, for example, small cracks on the back or fraying of the tooth flanks.

Since the timing belt plays an important role in engine control, it is all the more important to take the smallest signs of wear seriously and to comply with manufacturer's intervals. When installing the timing belt, it is also important to ensure that the tension is correct according to the manufacturer's specifications so that the timing belt cannot skip. Failure to comply with the above points may, in the worst case, result in engine damage to the vehicle.



SYMPTOMS

- Noise from the belt drive
- Cracks in timing belt
- Fringes on the tooth flanks



CONSEQUENTIAL DAMAGES

- Engine damage due to contact of the pistons with the valves



RECOMMENDED BY THE EXPERTS

- Change intervals according to observe vehicle manufacturer
- Have the timing belt changed only by a specialist workshop
- Simultaneous change of water pump, tension pulley and idler/guide pulley



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* For detailed vehicle information, please refer to the vehicle lists under www.vierol-shop.de.
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