

P0021

Adjustment of Inlet Camshaft in relation to Crankshaft, Bank 2 – Signal Implausible

Diagnostic conditions

- Battery voltage between 10 V and 16 V
- Time after the engine is started longer than 10 seconds
- Engine oil temperature between -9°C and 100°C
- Engine speed between 1,160 rpm and 6,000 rpm.

Possible cause of fault

- ◆ Dirt in oil circuit
- ◆ Sealing strips on inlet camshaft adjuster faulty
- ◆ Oil pressure too low
- ◆ Mechanical fault in inlet camshaft adjuster
- ◆ Magnetic hydraulic valve faulty

Affected pins

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Diagnosis/troubleshooting



Note!

Fault P0021 is only entered if there is a difference of between 5 °NW and 14 °NW in the actual value compared with the nominal value within a period of between two and five seconds.

Work instruction			Display OK	If not OK
1	Read out fault memory	◆ Check whether additional faults have been recorded	Only fault P0021 was recorded ⇒ Step 3	Fault P0011 was also recorded in the DME control module ⇒ Step 2
2	Check oil pressure, oil pump, pressure-regulating valve and oil type		⇒ Continue troubleshooting in Workshop Manual ⇒ 1; Rep. Gr. 17; Engine - lubrication → End	
3	Check magnetic hydraulic valve for leaks, check sealing strips on camshaft adjuster and camshaft adjuster itself for damage and check camshaft adjustment oil circuit for leaks and blockage		⇒ Continue troubleshooting in Workshop Manual ⇒ Group 1; Rep. Gr. 15; Engine, cylinder head, valve drive → End	

