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BMW 3-Series and Z4 (99-05) Includes 2006 325ci/330ci Coupe and Convertible models Haynes Online Manual.

7 Knock sensor - removal and installation

Removal

1 Two knock sensors are used, bolted to the left-hand side of the cylinder block. One sensor detects knocking in Numbers 1 to 3 cylinders, and the other sensor detects knocking in Numbers 4 to 6 cylinders.

2 Disconnect the cable from the negative terminal of the battery (see [Section 1](#)).

3 Remove the intake manifold (see [Chapter 4](#)).

4 Locate the sensor connector bracket which is located beneath the idle speed control valve. **Warning:** *If both knock sensors are to be removed, mark the wiring connectors to ensure correct installation. Incorrect reconnection may result in engine damage.*

5 Unclip the connector from the retaining clip, and disconnect the sensor wiring connector(s).

6 Unscrew the retaining bolt and remove the knock sensor, noting the routing of the wiring. The sensor for cylinders 1 to 3 is located beneath the temperature sensors in the cylinder head (see illustration) . The sensor for cylinders 4 to 6 is located to the rear of the sensor wiring connector bracket.

7.6 The knock sensors are located just below the cylinder head on the engine block



Installation

7 Commence installation by thoroughly cleaning the mating faces of the sensor and the cylinder block.

8 Install the sensor to the cylinder block, tightening the securing bolt to the torque listed in [this Chapter's Specifications](#).

9 Route the wiring as noted before removal, then reconnect the connector(s), and clip the connector to the bracket, ensuring that the connectors are positioned as noted before removal. **Warning:** *Ensure that the wiring connectors are correctly connected as noted before removal. If the connectors are incorrectly connected mixed up, engine damage may result.*

10 Install the intake manifold (see [Chapter 4](#)).

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