



**Haynes**  
shows you how

**BMW 3-Series 320i & 320xi (12-14), 325i, 325xi, 330i & 330xi (06) & 328i & 328xi (07-14) Haynes Online Manual**

## 9 Knock sensors - replacement

1 Disconnect the negative battery cable (see [Chapter 5](#) ).

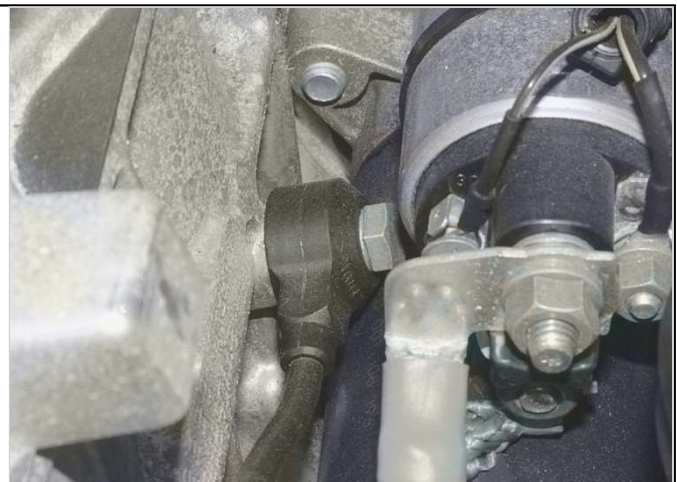
2 To access the knock sensors, remove the intake manifold (see [Chapter 4A](#) ).

3 There are two knock sensors on the left side of the block (see illustrations) . Mark the mounting angle of the sensors.

**9.3a The front knock sensor is located on the block near the ECT sensor**



**9.3b The rear knock sensor is mounted behind the starter motor**



4 Disconnect the electrical connector to the sensors.

**5 Remove the mounting bolt at each sensor. These bolts are aluminum and must be discarded.**

**6 Installation is the reverse of removal, noting the following points:**

- A. Clean the block surface before installing the sensors**
- B. Use new aluminum bolts**
- C. Mount the sensors at the same angle as original**
- D. Tighten bolts to 63 in-lbs, then an additional 90-degrees**

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