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shows you how

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

6 Crankshaft Position (CKP) sensor - replacement

2.0L engine

1 On 2.0L engines, the CKP sensor has two connected parts: the connector housing mounted above the starter and the sensor end which is mounted underneath the starter and behind the flywheel.

2 Remove the starter (see [Chapter 5](#)).

3 Disconnect the electrical connector to the CKP housing, then remove the housing bolt.

4 Working through the starter opening, remove the sensor mounting bolt and pull the sensor from the crankcase.

5 Installation is the reverse of removal, making sure that the guide pin on the CKP sensor is inserted in the guiding groove on the crankcase.

3.0L engine

6 On 3.0L engine models, the CKP sensor is located below the starter motor. For access, remove the intake manifold (see [Chapter 2A](#)).

7 Disconnect the sensor electrical connector, then remove the retaining bolt and the sensor (see illustration) .

Note: *The retaining bolt is aluminum, and must be replaced.*

6.7 On 3.0L engine, the Crankshaft Position (CKP) sensor is located below the starter



8 Check the condition of the sealing ring and replace if necessary. Install the sensor and tighten the new retaining bolt to the specified torque.

9 Installation is the reverse of removal.

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