



Haynes
shows you how

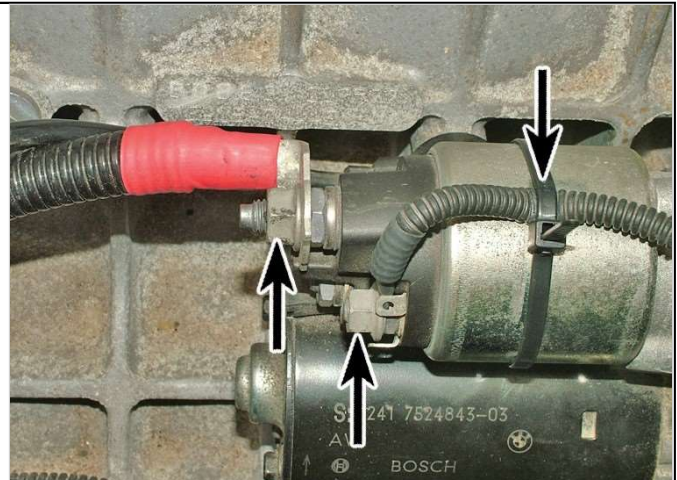
BMW 3-Series 320i & 320xi (12-14), 325i, 325xi, 330i & 330xi (06) & 328i & 328xi (07-14) Haynes Online Manual

7 Starter motor - removal and installation

Removal

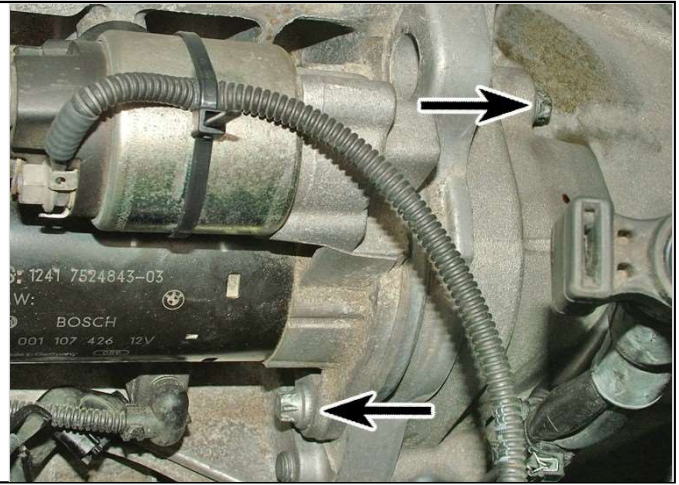
- 1 Disconnect the battery negative cable (see [Section 3](#)).
- 2 Remove the intake manifold (see [Chapter 4](#)).
- 3 Noting their installed positions, remove the nuts and disconnect the leads from the starter solenoid (see illustration) .

7.3 Disconnect the starter motor cables and cut the clip securing them to the solenoid



- 4 Remove the bolts and the starter motor (see illustration) . **Note:** Due to the magnesium crankcase, the starter mounting bolts are made of aluminum, and cannot be re-used; install new bolts.

7.4 Starter motor mounting bolts



Installation

5 Installation is the reverse of removal. Tighten the starter motor mounting bolts to the specified torque.

6 If the starter motor is thought to be suspect, it should be removed from the vehicle and tested by a dealer service department or other qualified repair shop. However, check on the cost of repairs before proceeding, as it may prove more economical to obtain a new or exchange starter.

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