



Haynes
shows you how

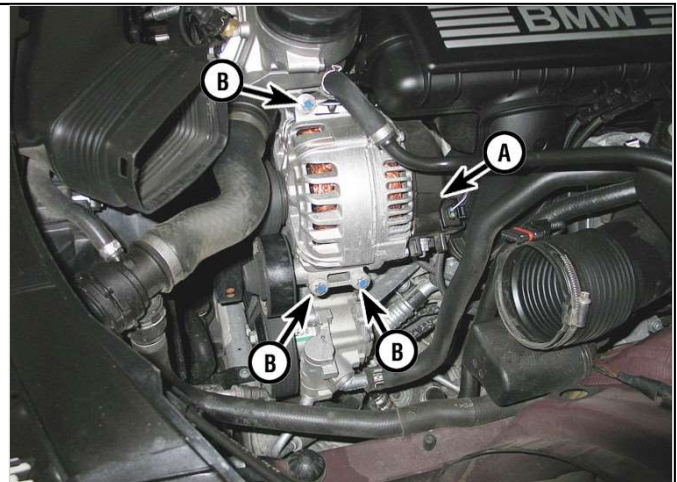
BMW 3-Series 320i & 320xi (12-14), 325i, 325xi, 330i & 330xi (06) & 328i & 328xi (07-14) Haynes Online Manual

6 Alternator - removal and installation

Removal

- 1 Disconnect the negative battery cable (see [Section 3](#)).
- 2 Remove the alternator drivebelt (see [Chapter 1](#)). On 2.0L models, remove the tensioner (see [Chapter 1](#)).
- 3 Remove the air cleaner housing (see [Chapter 4](#)).
- 4 Unlock and disconnect the electrical connector, remove the nut and disconnect the battery cable from the rear of the alternator (see illustration).

6.4 Disconnect the electrical connectors (A) and remove the mounting bolts (B)



- 5 Remove the upper and lower mounting bolts, then remove the alternator. **Note:** *Due to the magnesium crankcase, the alternator mounting bolts are made of aluminum, and cannot be re-used; install new bolts.*
- 6 On 3.0L models, to remove the alternator pulley on models with an over-running clutch, mount the alternator in a bench vise and pry off the plastic cap. The pulley can be removed by inserting BMW tool No 12 7 121 into the pulley center, and holding the alternator shaft with BMW tool No 12 7 122 (see illustrations). Loosen the pulley center while holding the alternator shaft stationary. Suitable alternative tools are available from aftermarket tool manufacturers.

6.6a Insert the special tools into the alternator shaft and pulley center



6.6b Hold the alternator shaft and loosen the pulley center



6.6c Slide the pulley from the shaft



Note:

On 2.0L models, the alternator pulley should not be removed. The pulley is not serviceable separately from the alternator; if there is a problem the alternator must be replaced as a complete unit.

Installation

7 Installation is the reverse of removal, tightening all fasteners to their specified torque where given.

8 If the alternator 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 alternator.

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