



**Haynes**  
shows you how

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

## 9 Alternator - removal and installation

### Removal

- 1 Disconnect the cable(s) from the negative battery terminal(s) (see [Section 1](#) ).
- 2 Remove the air filter housing (see [Chapter 4](#) ) and the mass airflow (MAF) sensor (see [Chapter 6](#) ).
- 3 Remove the engine cooling fan (see [Chapter 3](#) ). On automatic transmission models, remove the cooling fan and viscous coupling.
- 4 Remove the drivebelt (see [Chapter 1](#) ).
- 5 Reach beneath the alternator and pull the air cooling hose down and off of the alternator rear cover.
- 6 Remove the alternator cover rear mounting nuts and the rear cover.
- 7 Remove the fasteners and disconnect the wiring from the rear of the alternator (see illustration) .

**9.7 To disconnect the alternator wiring, remove the rubber cover, unscrew the nut then unplug the connector**



- 8 Remove the upper and lower alternator securing bolts (see illustration) .

## 9.8 Alternator mounting bolts



9 Withdraw the alternator from the engine.

## Installation

10 Installation is a reversal of removal, bearing in mind the following points.

- A. When installing the tensioner idler pulley, ensure that the lug on the rear of the pulley assembly engages with the corresponding cut-out in the mounting bracket.
- B. Install the all parts in the reverse order of removal.

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