



**Haynes**  
shows you how

**BMW 3-Series (92-98) & Z3 (96-98) Haynes Online Manual**

## 7 Alternator - removal and installation

### Four-cylinder models

#### Removal

- 1 Disconnect the battery negative lead. **Caution:** *If the radio in your vehicle is equipped with an anti-theft system, make sure you have the correct activation code before disconnecting the battery.*
- 2 Remove the air cleaner assembly and the air mass meter (see [Chapter 4A](#) ).
- 3 Remove the drivebelt (see [Chapter 1](#) ).
- 4 Pry the cover(s) from the rear of the alternator, then unscrew the nuts and bolt, and disconnect the wiring (see illustration) .

**7.4 Pry the cover (arrow) from the rear of the alternator (four-cylinder 3-Series model shown)**



- 5 Where applicable, pry the cover from the center of the drivebelt guide pulley, then unbolt the pulley for access to the upper alternator securing bolt. Note the location of the pulley to ensure correct installation.
- 6 Counterhold the nuts and unscrew the upper and lower alternator securing through-bolts (see illustrations) .

### 7.6a Unscrew the upper . . .



### 7.6b . . . and lower alternator securing bolts (arrow)- four-cylinder model



7 Withdraw the alternator from the engine.

## Installation

8 Installation is a reversal of removal, but ensure that the drivebelt guide pulley is correctly fitted as noted before removal, and install the drivebelt (see [Chapter 1](#)).

## Six-cylinder models

### Removal

9 Disconnect the battery negative lead. **Caution:** *If the radio in your vehicle is equipped with an anti-theft system, make sure you have the correct activation code before disconnecting the battery.*

10 Remove the air cleaner assembly and the air mass meter (see [Chapter 4B](#)).

11 Remove the drivebelt (see [Chapter 1](#)).

12 Pull off the cover(s), then unscrew the nuts and disconnect the wiring from the rear of the alternator (see [illustration](#)) .

**7.12 Disconnect the wiring (arrows) from the rear of the alternator - six-cylinder model**



13 Pry the cover from the center of the drivebelt tensioner idler pulley, then unscrew the upper through-bolt securing the idler pulley and the alternator (see illustration) .

**7.13 Unscrew the upper through-bolt securing the idler pulley - six-cylinder model**



14 Counterhold the nut and unscrew the lower alternator securing through-bolt.

15 Withdraw the alternator from the engine (see illustration) .

**7.15 Withdraw the alternator from the engine**



## Installation

**16** 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 drivebelt (see [Chapter 1](#) ).

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