



Haynes
shows you how

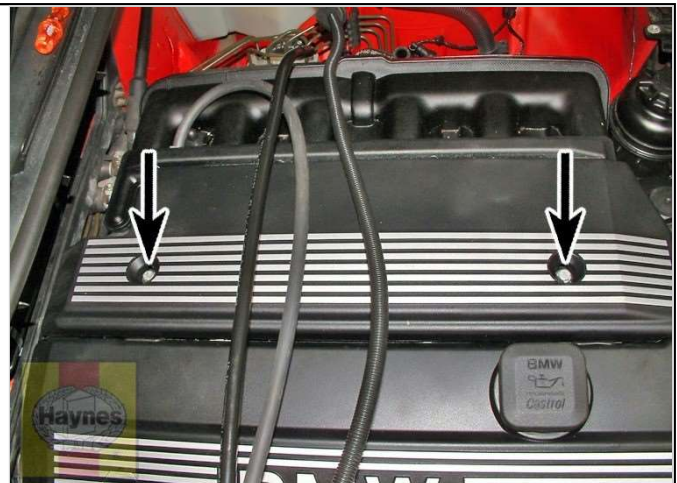
BMW 3-Series and Z4 (99-05) Includes 2006 325ci/330ci Coupe and Convertible models Haynes Online Manual.

6 Ignition coil(s) - removal and installation

Removal

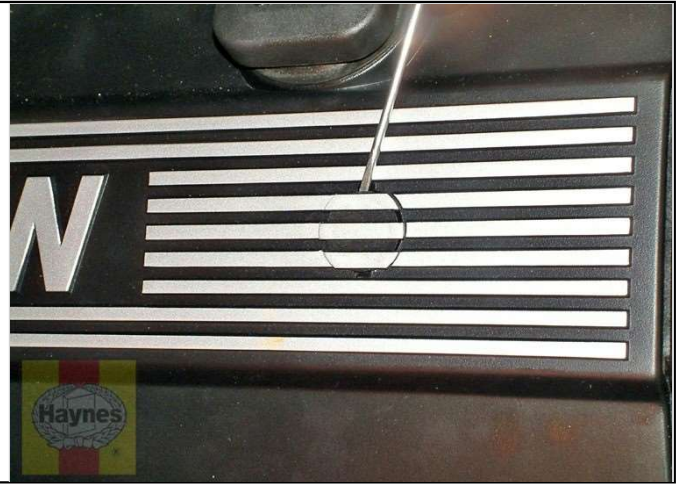
- 1 Each spark plug is fed by its own coil, and the coils are mounted directly on top of the spark plugs, in the valve cover.
- 2 Ensure the ignition is switched off.
- 3 Remove the engine oil filler cap.
- 4 Remove the in-cabin air filter (see [Chapter 1](#)) and the heater/ventilation inlet air ducting from the rear of the engine compartment (see [Chapter 2A, Section 4](#)).
- 5 Pry up the plastic caps, remove the retaining screws, and remove the plastic cover from above the injectors (see illustration) .

6.5 Unscrew the bolts and remove the plastic cover from above the injectors



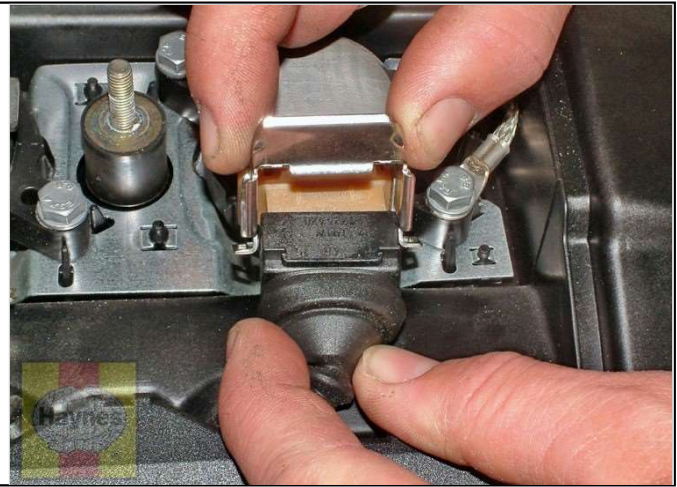
- 6 Remove the plastic cover from the top of the cylinder head cover. To remove the cover, pry out the cover plates (see illustration) and unscrew the two securing nuts, then lift and pull the cover forwards. Manipulate the cover over the oil filler neck.

6.6 Pry up the caps, remove the nuts, and remove the cover



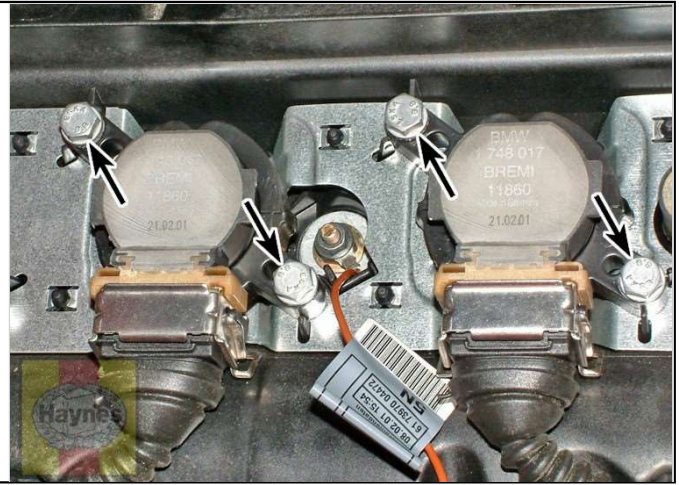
7 Lift the securing clip, and disconnect the electrical connector from the relevant coil (see illustration) . If all the coils are to be removed, disconnect all the connectors, then unscrew the nut securing the coil wiring ground lead to the stud on the front of the timing chain cover - the wiring harness can then be unclipped from the camshaft cover and moved to one side.

6.7 Lift the clip and disconnect the electrical connector



8 Unscrew the two coil securing bolts, noting the locations of any ground leads and/or brackets secured by the bolts (see illustration) . Note that the coil connectors are spring-loaded, so the top of the coil will lift as the bolts are unscrewed.

6.8 Remove the coil bolts



9 Pull the coil from the valve cover and spark plug, and withdraw it from the engine (see illustration) .

6.9 Lift the ignition coil from the cylinder head



Installation

10 Installation is a reversal of removal, but ensure that any ground leads and brackets are in position as noted before removal.

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