

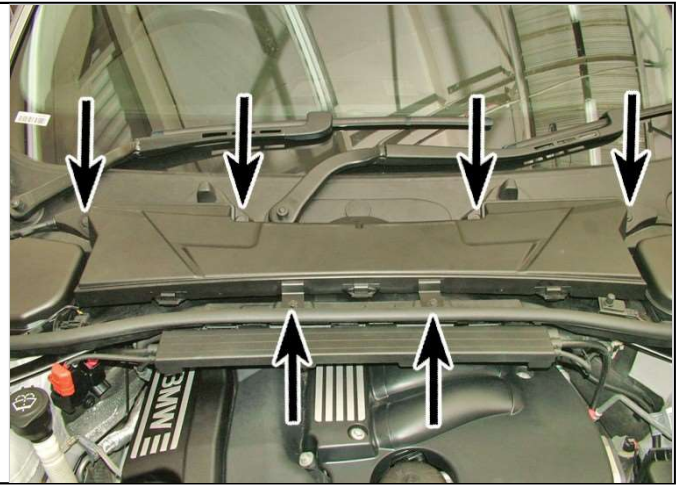
**Haynes**
shows you how**BMW 3-Series 320i & 320xi (12-14), 325i, 325xi, 330i & 330xi (06) & 328i & 328xi (07-14) Haynes Online Manual**

9 Ignition coils - removal and installation

All models

1 Remove the engine cover by lifting the front of the cover up and pulling it forwards, once the cover is removed, starting at the rear of the engine compartment remove the cabin air filter cover mounting fasteners and cover. Slide the filter from the housing (see illustration) . If necessary, refer to [Chapter 1](#) .

9.1 Remove the mounting fasteners and the cabin air filter upper housing



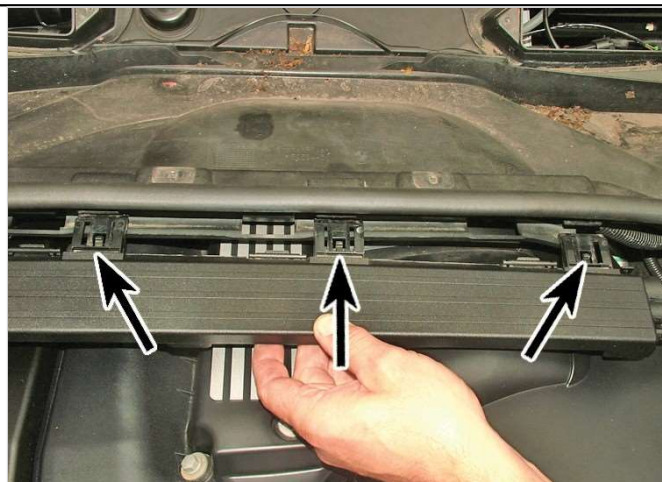
2 Release the clips and remove the left and right plastic covers from behind the strut tower on each side of the engine compartment. Unclip the hose from the left-hand cover (see illustration) .

9.2 Release the clips and remove the plastic cover on each side



3 Depress the clips and pull the cable guide forwards from the cabin air filter lower housing (see illustration) .

9.3 Release the clips and slide the cable guide forward



4 Release the clip and remove the bolt at each side, then slide the cabin air filter lower housing forwards and maneuver it up and out (see illustrations) .

9.4a Remove the mounting fastener and release the clip on each side



9.4b Slide the cabin air filter lower housing forward and out



5 Unscrew the oil filler cap, then remove the bolts and the plastic cover from the top of the engine. Note that the camshaft cover is made from magnesium alloy and the plastic cover bolts are aluminum, and must not be re-used.

6 Pry up the right-hand edge of the plastic covers over the ignition coils (above the spark plugs), and disconnect the coil electrical connectors (see illustrations) . With the wiring plugs disconnected, pull the coils from the spark plugs. **Note:** *Keep track of which coils relate to which cylinders.*

9.6a Lift the cover and disconnect the coil wiring plug



9.6b Pull the coil from above the spark plug



7 Installation is the reverse of removal, but make sure that any ground leads and brackets are in position as noted before removal.

Models with strut tower supports

8 Remove the plastic cap from the center of the cowl trim panel. Two different types of cap are used: one with a central slot, removed by rotating it 45-degrees counterclockwise, and one without a central slot, which is pried out (see illustration) . **Note:** *If the cap or seal are damaged, they must be replaced. Failure to do so may result in water leaks.*

9.8 Remove the cap from the center of the cowl trim panel . . .



9 Remove the bolt in the center of the cowl (see illustration) . Discard the bolt; a new one must be used on reassembly.

9.9 . . . and remove the exposed bolt



10 Remove the bolt at each outer end of the supports, hold the rubber grommet in place and slide the supports outwards (see illustration) . Do not allow the grommet to be displaced. Discard the bolts; new ones must be installed.

9.10 Remove the mounting fastener at the end of each strut tower support



11 Unscrew the oil filler cap, then remove the bolts and the plastic cover from the top of the engine. Note that the camshaft cover is made from magnesium alloy and the plastic cover bolts are aluminum, and must not be re-used.

12 Pry up the right-hand edge of the plastic covers over the ignition coils (above the spark plugs), and disconnect the coil electrical connectors (see illustrations 9.6a and 9.6b) . With the wiring plugs disconnected, pull the coils from the spark plugs. **Note:** *Keep track of which coils relate to which cylinders.*

13 Installation is the reverse of removal, but make sure that any ground wires and/or brackets are reinstalled where noted before removal.