

**Haynes**
shows you how

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

4 Valve cover - removal and installation

Note:

The camshaft cover is made from magnesium alloy. Do not install steel bolts/studs into the cover, or excessive corrosion will result.

Removal

1 Remove the plastic cap from the center of the cowl trim panel. Two different types of the cap are installed: 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 a water leak.*

4.1 Pry out or rotate the plastic cap in the center of the cowl trim panel



2 Remove the bolt in the center of the cowl, exposed by the cap removal. Discard the bolt; a new one must be installed.

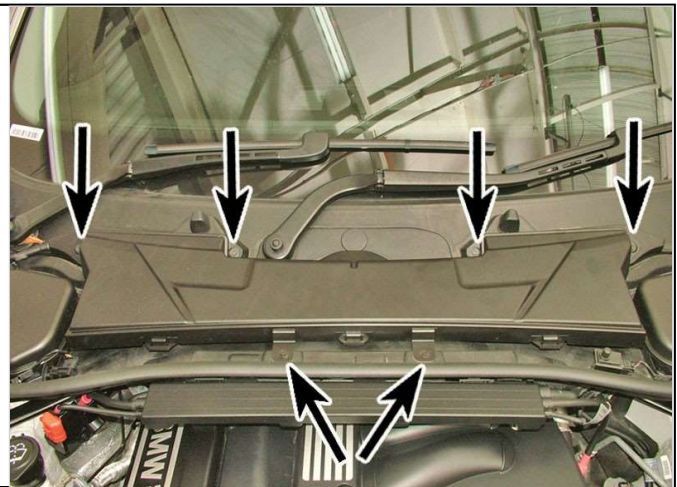
3 Remove the bolt at each outer end of the supports, then hold the rubber grommet in place and slide the supports outwards (see illustration) . Do not allow the grommet to be displaced. Discard the bolts; new ones must be installed.

4.3 Remove the bolt at the end of each support



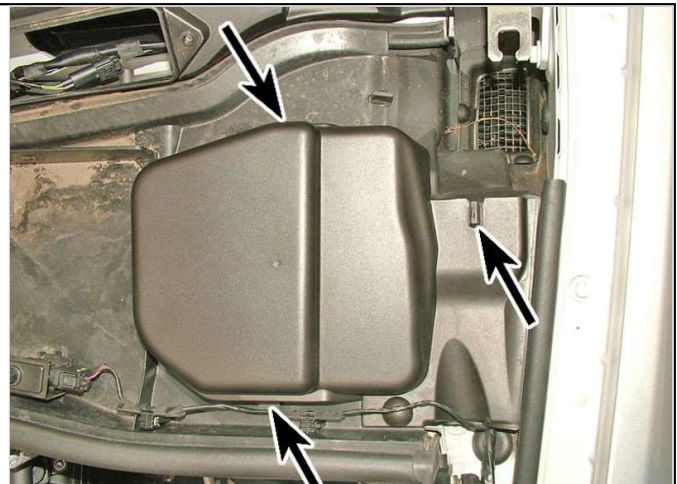
4 Working at the rear of the engine compartment, remove the cabin air filter cover bolts and remove the cover (see illustration) . Slide the filter from the housing.

4.4 Cabin air filter upper housing bolts



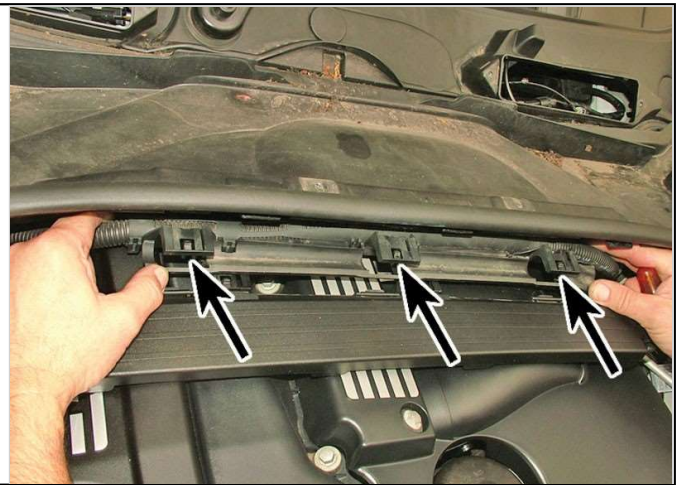
5 Release the clips and remove the left- and right-hand plastic covers from behind the strut tower on each side of the engine compartment. Unclip the hose from the left-hand cover (see illustration) .

4.5 Release the clips and remove the plastic cover at each side



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

4.6 Release the clips and slide the cable guide forwards

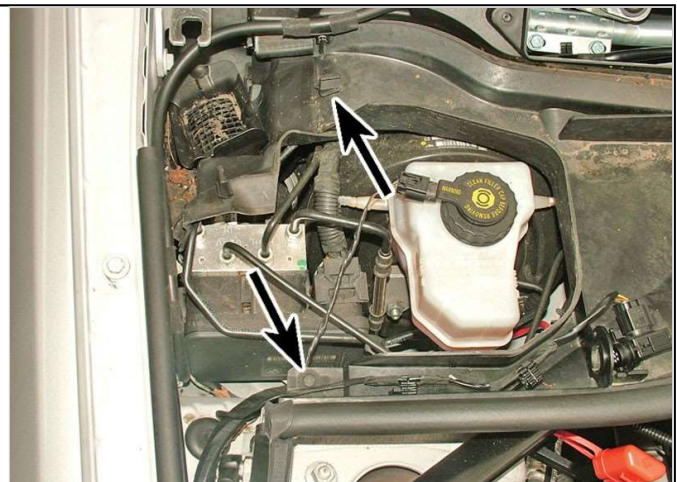


7 Release the catch and remove the bolt on each side, then slide the cabin air filter lower housing forwards and maneuver it out (see illustrations) .

4.7a Rotate the temperature sensor and detach it from the bracket. Disconnect the hood switch on the passenger's side



4.7b Remove the bolt and release the clip on each side



4.7c Slide the cabin air filter lower housing forwards



8 Remove the ignition coils (see [Chapter 5](#)).

9 Unclip the wiring harness for the fuel injectors. Ensure all wiring in the valve cover area is moved to one side. Note the installed positions of the various electrical connectors before disconnecting them.

10 Disconnect the breather hose from the valve cover (see illustration) .

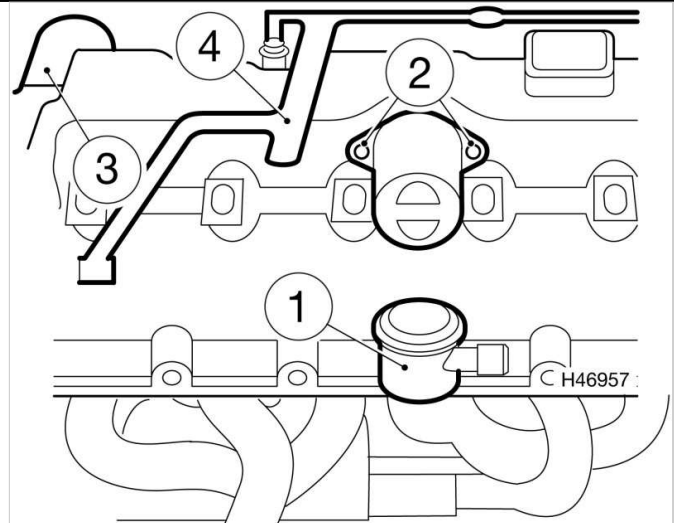
4.10 Valve cover details

1 Secondary air injection valve

2 Valvetronic servo motor bolts

3 Breather hose

4 Metal bracket

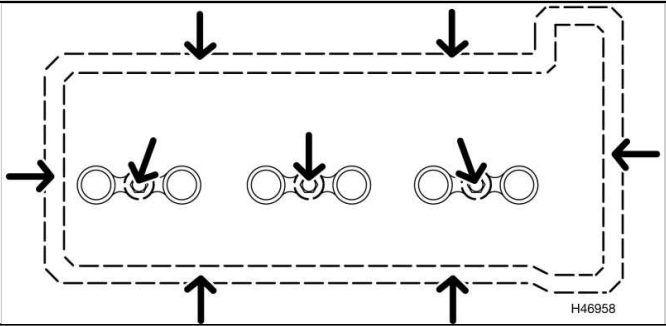


11 Remove the bolts and the Valvetronic positioning motor.

12 Remove the nuts and the secondary air injection valve (where installed).

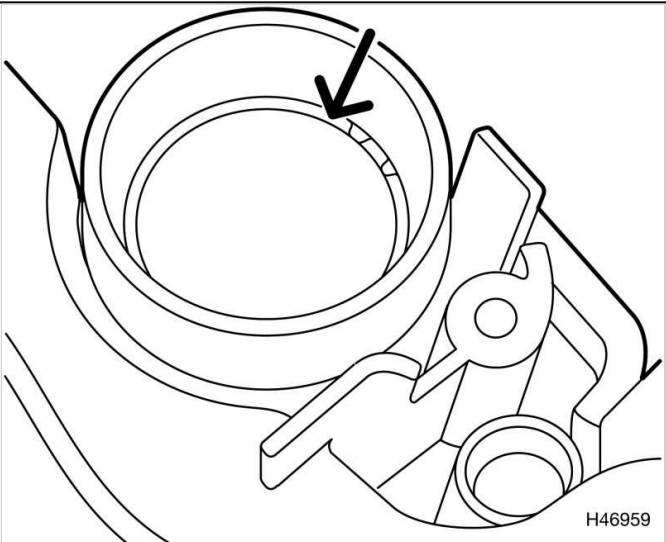
13 Remove the bolts and the valve cover (see illustration) . Replace the gaskets. Discard the bolts - new ones must be installed.

4.13 Loosen the outer bolts first, followed by the inner bolts



14 On some models, BMW states that the slotted sleeves for guiding the coils into the cylinder head must be replaced (see illustration) .

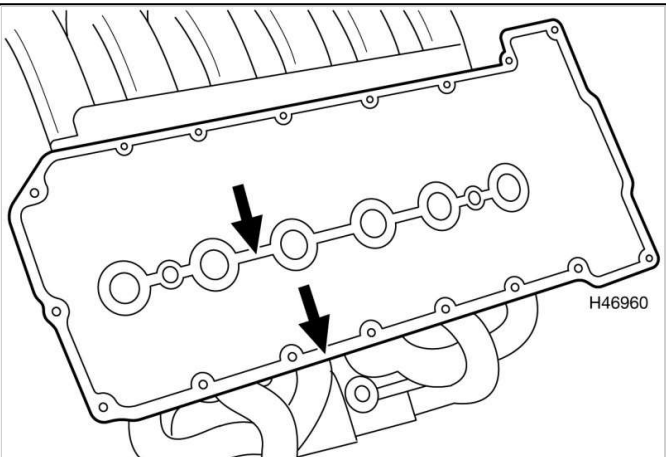
4.14 Replace the slotted sleeves



Installation

15 Before installing the valve cover, replace all the seals and gaskets (see illustration) .

4.15 Replace the seals



16 Clean the gasket/sealing faces of the cylinder head and the valve cover.

17 Lay the valve cover in position, taking care not to disturb the gaskets.

18 Install the new valve cover bolts, then tighten them evenly to the specified torque.

19 The remainder of installation is the reverse of removal.

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