



**Haynes**  
shows you how

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

## 3 Radiator - removal, inspection and installation

### Warning:

Refer to the **Warnings** given in Section 1 of this Chapter before proceeding.

### Removal

1 Drain the cooling system (see [Chapter 1](#) ).

2 Remove the bolts and move the air intake duct rearwards and upwards (see illustration) .

#### 3.2 Remove the bolts and the intake duct

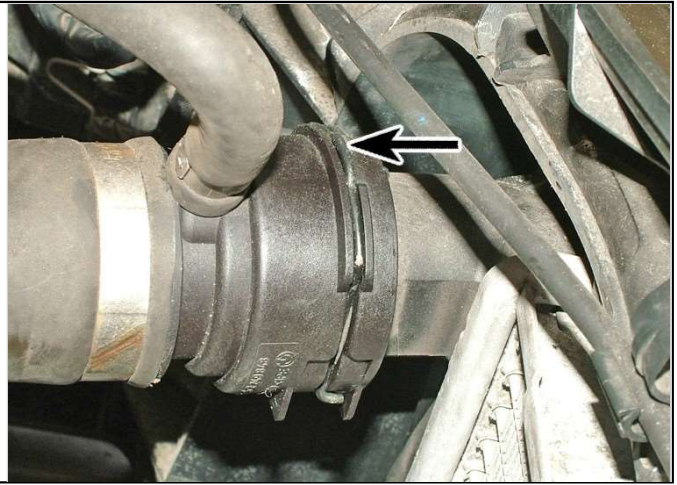


3 Remove the air filter housing (see [Chapter 4](#) ).

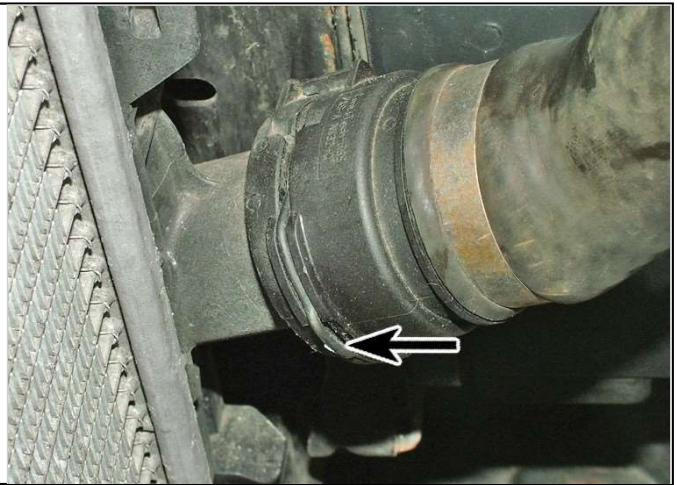
4 Remove the electric cooling fan and shroud (see [Section 5](#) ).

5 Pry out the wire clips and disconnect the radiator upper and lower coolant hoses (see illustrations) . Where applicable, disconnect the coolant hose from the automatic transmission fluid cooler.

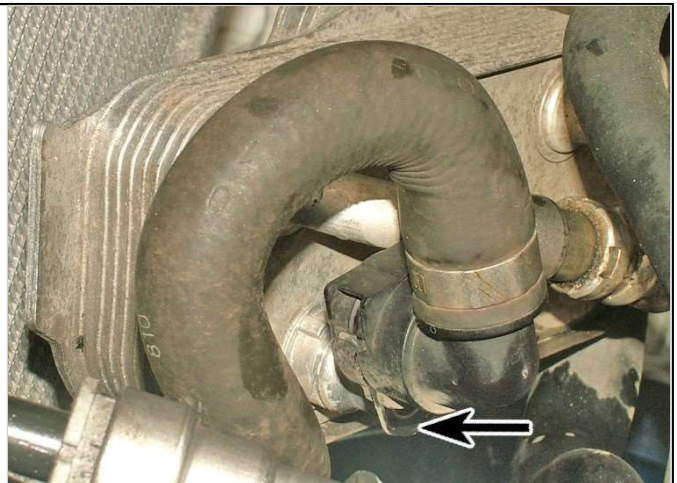
**3.5a Pry up the clip and disconnect the upper . . .**



**3.5b . . . and lower radiator hoses**



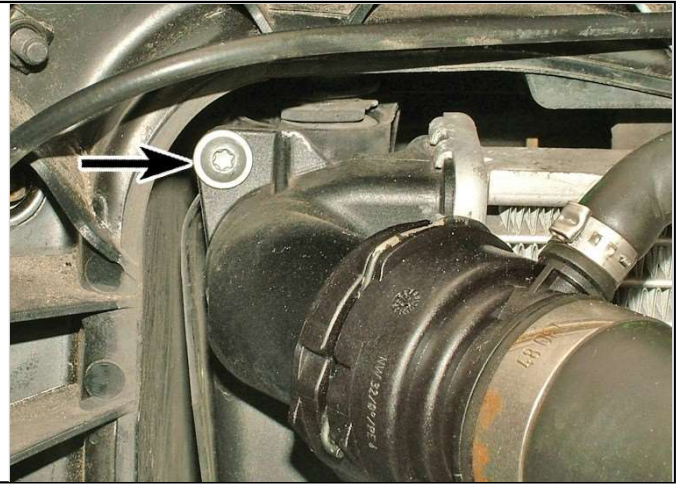
**3.5c Pry out the clip and disconnect the coolant hose from the automatic transmission fluid cooler**



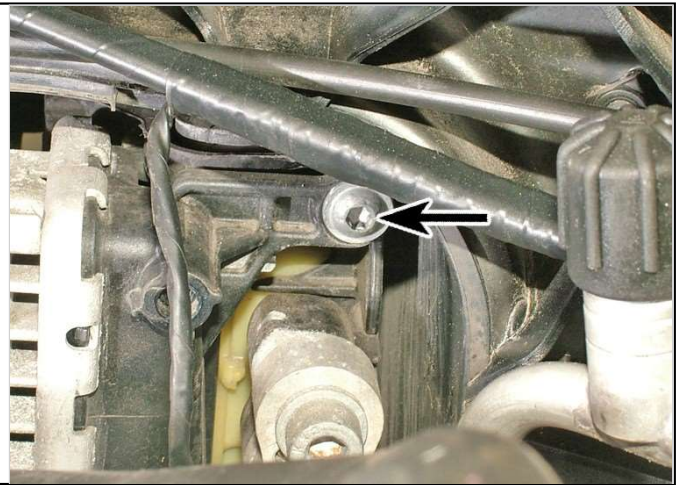
6 On E-series chassis models with an automatic transmission, remove the mounting bolt and detach the fluid cooler hoses from the radiator. On F-series chassis models with an automatic transmission, unlock the transmission oil cooler lines (see [Section 2](#) , Step 5) and disconnect the hose(s) from the radiator.

7 Remove the radiator upper mounting bolts, then pull the top of the radiator rearwards and upwards to remove it (see illustrations) .

**3.7a Remove the radiator retaining bolt in the left-hand upper corner . . .**



**3.7b . . . and the right-hand upper corner**



## Inspection

8 If the radiator has been removed due to suspected blockage, reverse-flush it (see [Chapter 1](#)). Clean dirt and debris from the radiator fins, using a compressed air (in which case, wear eye protection) or a soft brush. Be careful, as the fins are easily damaged, and are sharp.

9 If necessary, a radiator specialist can perform a flow test on the radiator, to establish whether an internal blockage exists.

10 A leaking radiator must be referred to a specialist for permanent repair. Do not attempt to weld or solder a leaking radiator, as damage may result.

11 Inspect the radiator lower mounts for signs of damage or deterioration and replace if necessary.

## Installation

12 Installation is the reverse of removal, noting the following points:

A. Lower the radiator into position, engage it with the mounts and secure it in position with the retaining bolts.

- B. Ensure that the fan cowl is correctly located with the lugs on the radiator and secure it in position with the clips.**
- C. Reconnect the hoses and ensure the retaining clips engage securely.**
- D. Check the condition of the O-ring seals in the end of the radiator fittings. Replace any that are defective.**
- E. Refill the cooling system (see [Chapter 1](#) ).**

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