



Haynes
shows you how

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

6 Electric cooling fan and shroud - removal and installation

Removal

Cooling fan (manual transmission models)

1 Remove the expansion rivets mounting the fan shroud to the radiator (see illustration) . Where plastic expansion rivets are installed, lift up the center pin, then pry the entire rivet from place.

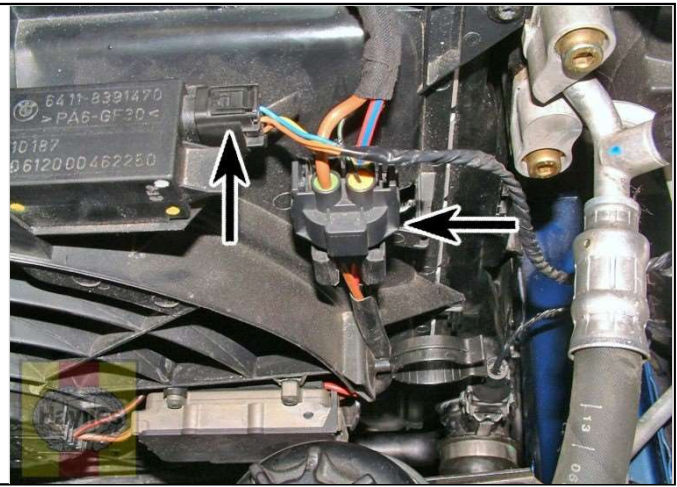
6.1 Pry up the center pin, then remove the expansion rivet



2 Disconnect the cooling ducts from the shroud and remove them from the engine compartment.

3 Disconnect the electrical connectors from the right side of the shroud assembly (see illustration) .

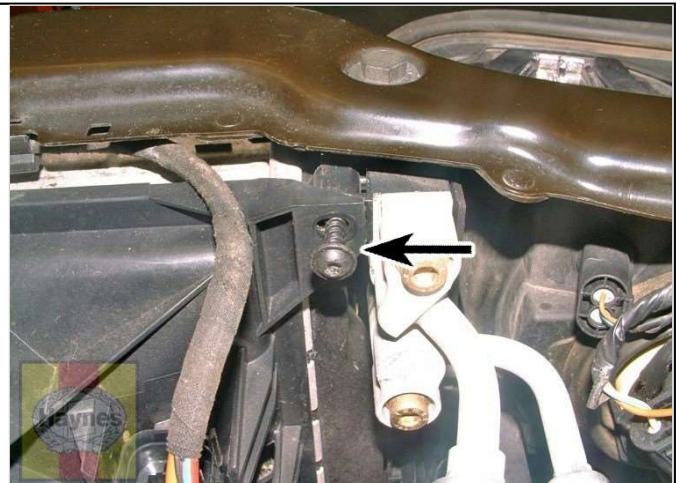
6.3 Remove the connectors from the shroud



4 Where applicable, remove the hoses from the clips on the lower part of the shroud.

5 Remove the screw and the expansion rivet from the radiator and the fan shroud (see illustrations) .

6.5a Remove the screw in the right-hand corner . . .



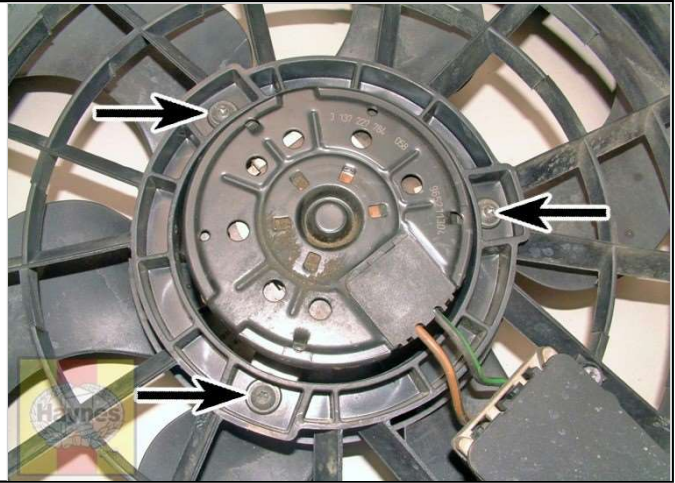
6.5b . . . and the plastic expanding rivet in the left-hand corner

03-06.05b.jpg

6 Lift the fan upwards and out of the engine compartment. Take care not to damage the radiator while lifting the fan shroud assembly.

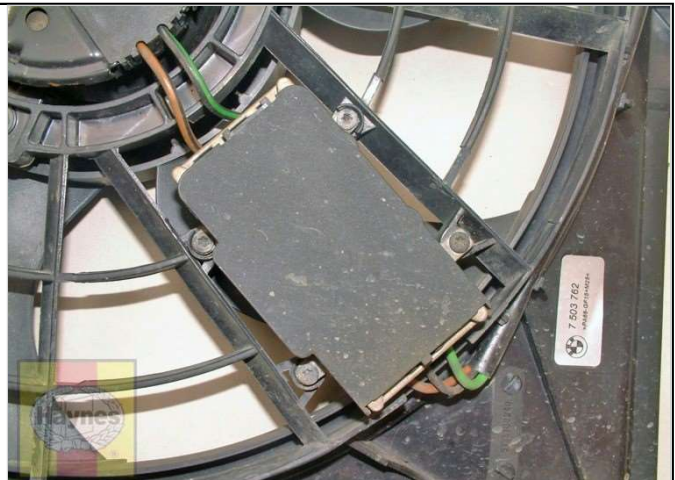
7 Remove the three screws and remove the fan motor from the shroud (see illustration) . **Note:** *Do not lift the assembly by the fan blades or the balance of the fan may be disturbed, resulting in excessive noise while the fan is in use.*

6.7 The fan motor is secured by three screws



8 If required, remove the four screws and remove the timer unit from the shroud (see illustration) .

6.8 Remove the four screws and remove the timer unit



Primary cooling fan (automatic transmission models)

9 Remove the expansion rivets mounting the fan shroud to the radiator (see illustration) . Where plastic expansion rivets are installed, lift up the center pin, then pry the entire rivet out.

6.9 Pry out the expansion rivets and remove the intake hood



10 Remove the front bumper (see [Chapter 11](#)).

11 Unclip and disconnect the fan motor electrical connector.

12 Pry out the four expansion rivets, and remove the fan shroud.

13 Remove the four nuts and withdraw the fan and motor.

Installation

14 Installation is a reversal of removal, ensuring the lugs on the lower edge of the shroud engage in the corresponding slots in the radiator edge.

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