



Haynes
shows you how

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

11 Throttle body - removal and installation

M52TU engines

Removal

- 1 Disconnect the cable from the negative battery terminal (see [Chapter 5, Section 1](#)).
- 2 Remove the air cleaner housing as described in [Section 2](#).
- 3 Remove the mass airflow sensor and ducting as described in [Chapter 6](#).
- 4 Disconnect the throttle cable(s) from the throttle quadrant and support bracket.
- 5 Release the retaining clips, and disconnect the air intake ducting from the throttle body and the idle speed control valve.
- 6 Note their installed locations, and disconnect any wiring connectors attached to the throttle body.
- 7 Disconnect the electrical connectors from the oil pressure and oil temperature switches, adjacent to the oil filter housing.
- 8 Unclip the fuel lines and fuel regulator vacuum hose (where installed) from the retaining bracket on the oil dipstick guide tube.
- 9 Disconnect the oil return line from the dipstick guide tube, undo the retaining bolt and remove the guide tube. Discard the O-ring seal - a new one must be installed (see illustration).

11.9 Be sure to install a new O-ring on the dipstick tube



10 Remove the three screws/nuts securing the cable duct mounting.

11 Rotate the connector collar counterclockwise, and disconnect the wiring connector from the throttle body (M52TU engines) or release the retaining clip and disconnect the wiring connector (M54 engines) (see illustration) , unscrew the four bolts and remove the throttle body from the intake manifold.

11.11 Disconnect the throttle body wiring connector (M54 engine shown)

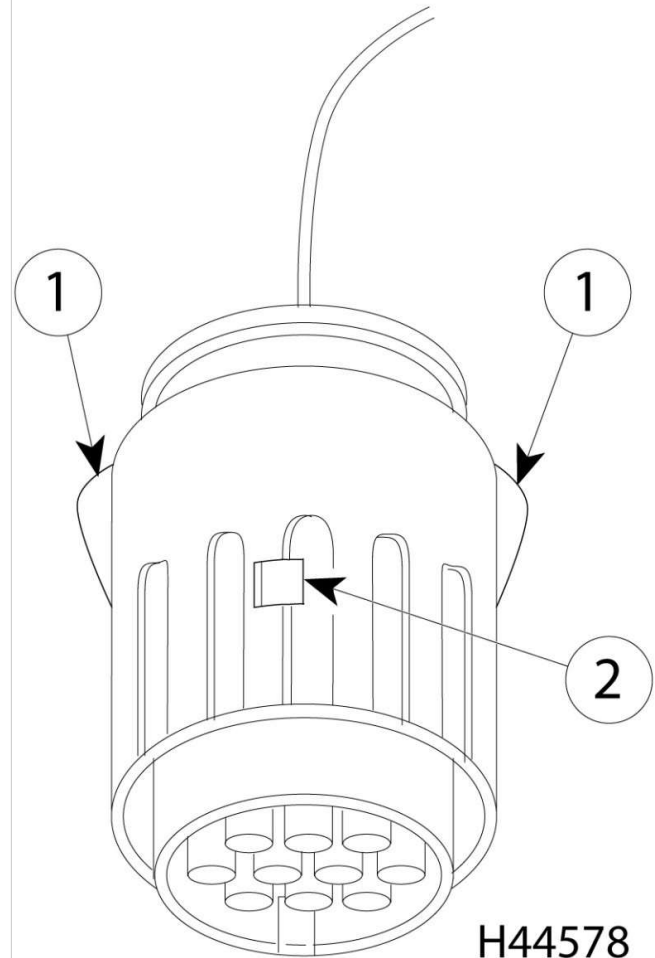


Installation

12 Examine the throttle body-to- intake manifold O-ring seal. If it is good condition, it can be re-used. Install the throttle body to the manifold, and tighten the four bolts securely.

13 Prior to reconnecting the throttle body wiring connector on M52TU engines, rotate the connector collar until the red locking pin is visible through the opening in the collar. Align the arrow on the collar with the arrow on the throttle body terminal. Push the wiring connector on, rotating the collar clockwise until the second arrow on the collar aligns (see illustration). On M54 engines, simply install the wiring connector.

11.13 Wiring connector arrows (1) and opening (2)



14 The remainder of installation is a reversal of removal. Note that if a new throttle body has been installed, the (learned) stored values in the engine management ECM, must be reset using dedicated test equipment. Have this carried out by a BMW dealer or suitably equipped specialist. **Note:** *On M54 engines, it may be possible to perform ECM adaptation by performing the following steps:*

- A. Turn the ignition ON for 10 seconds. Don't start the engine at this time.
- B. Turn the ignition OFF for 10 seconds.
- C. Start the engine. It may take a few trips before full adaptation occurs. If the vehicle does not run correctly after driving in various conditions, have the vehicle inspected by a BMW dealership or other qualified repair facility.

M54 and M56 engines

Removal

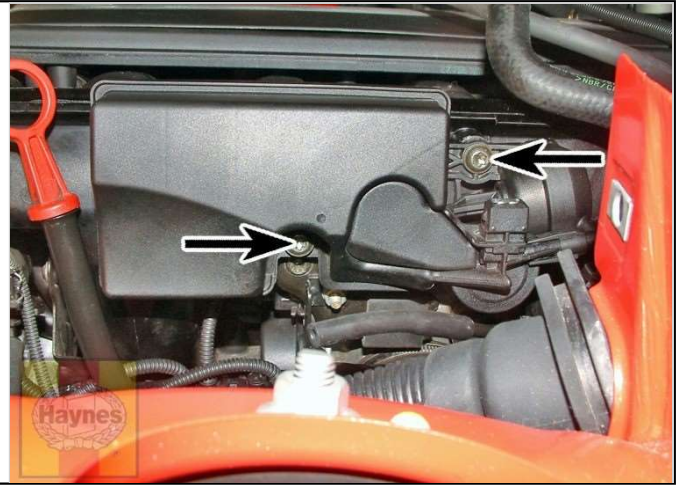
15 Disconnect the cable from the negative battery terminal (see [Chapter 5, Section 1](#)).

16 Remove the air cleaner housing as described in [Section 2](#).

17 Release the retaining clips, disconnect the wiring connector and vacuum hose, and remove air cleaner housing-to-connecting piece intake ducting.

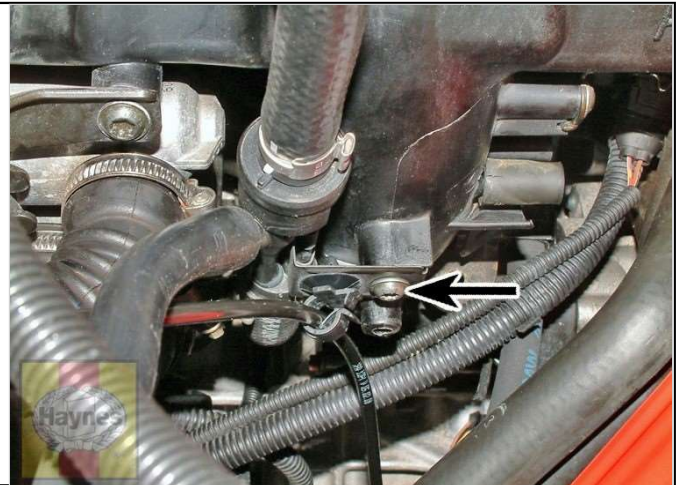
18 Disconnect the wiring connector, unscrew the two Torx screws, and remove the DISA adjustment unit from the intake manifold (see illustration).

11.18 Remove the screws and detach the DISA adjustment unit



19 Unscrew the bolt securing the suction jet tube to the intake manifold (see illustration) .

11.19 Remove the bolt securing the suction jet tube



20 Release the clamps and disconnect the intake ducting from the throttle body and idle speed control valve.

21 Disconnect the idle speed control valve wiring connector.

22 Disconnect the wiring connectors for the oil temperature and oil pressure switches adjacent to the oil filter housing.

23 Press in the retaining clip to unlock the wiring connector, and detach it from the tank venting valve (see illustration).

11.23 Disconnect the tank vent valve wiring connector



24 Proceed as described in Steps 8 through 11.

Installation

25 Installation is as described in Steps 12 through 14.

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