

2003 BMW 325i Sedan (E46) L6-2.5L (M54)

Vehicle > Engine, Cooling and Exhaust > Engine > Intake Manifold > Service and Repair > Removal and Replacement

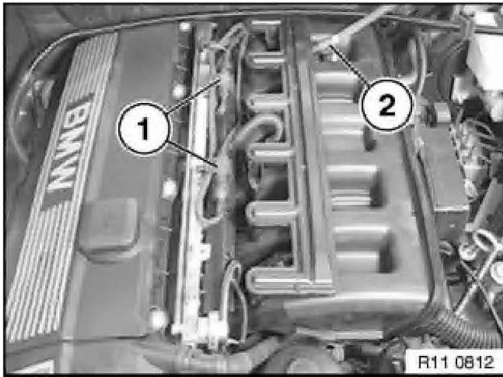
11 61 050 REMOVING AND INSTALLING INTAKE AIR MANIFOLD

11 61 050 Removing and Installing Intake Air Manifold (M54)

Necessary preliminary tasks:

- Refer to Instructions For Disconnecting And Connecting Battery.
- Disconnect negative battery lead.
- Remove engine cover
- Remove bulkhead See: Cowl Moulding / Trim > Removal and Replacement > 51 71 080 Removing and Installing/Replacing Heater Bulkhead

Important! Do not mix up oxygen monitor sensors for cylinders 1 to 3 and 4 to 6 at plug connection to wiring harness. Mark plug connections.

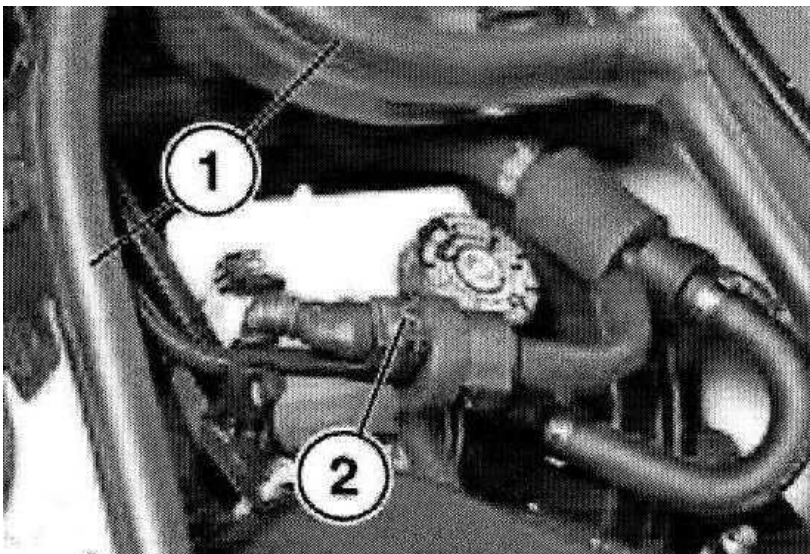


Unclip plug connections (1) from holder.

Detach battery positive lead from intake air manifold

Detach retainer (2) from battery positive lead.

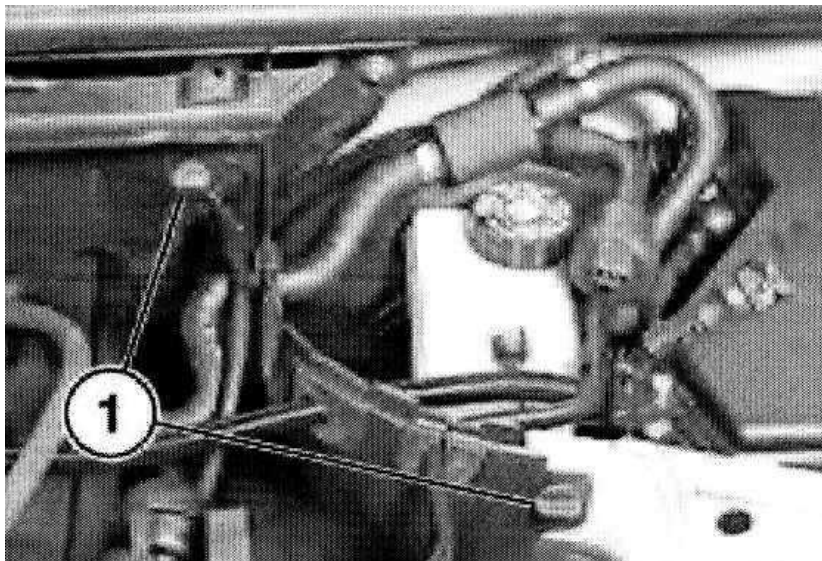
E46 Only



Pull off complete rubber strip (1).

Disconnect plug connection (2) on solenoid valve.

E46 Only



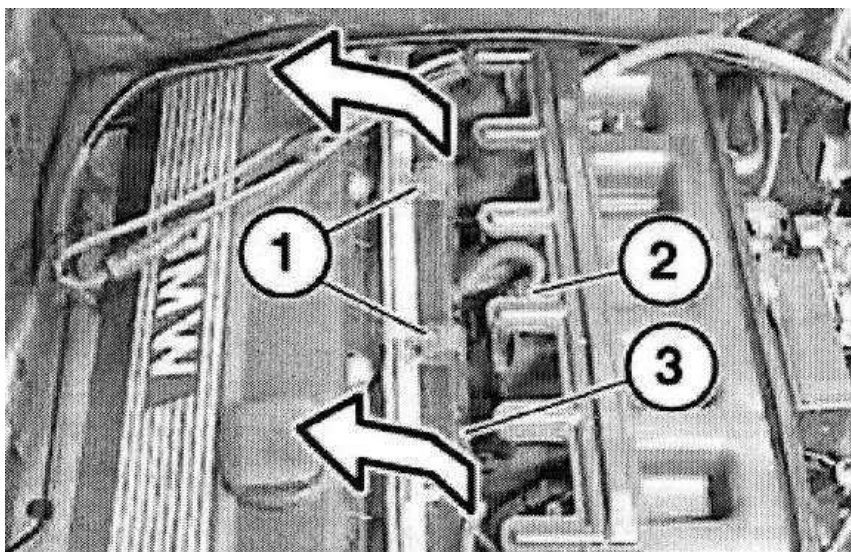
Unclip cable penetrations from side trim panel.

Release locks (1) on side panel.

Pull out side trim panel towards top.



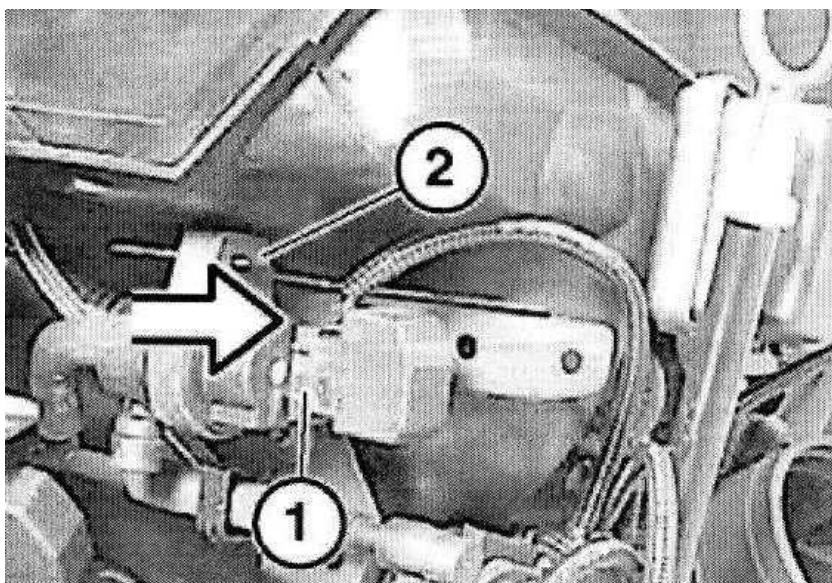
Press lock and detach vent hose from cylinder head cover.



Pull off retainer (1).

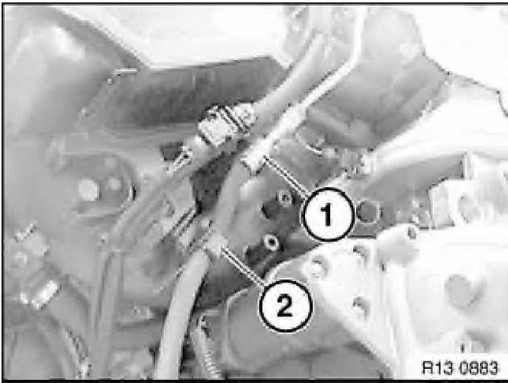
Disconnect plug connection (2) for intake air temperature sensor.

Detach terminal strip (3) from fuel injectors and lay to one side.



Disconnect plug connection (1) on tank venting valve.

Detach tank venting valve from retainer (2) on manifold.



Note: For a better overview, this work step is shown on engine that has been removed.

Important! Catch and dispose of fuel as it escapes.

Unclip fuel line (1) and cable from holder (2).

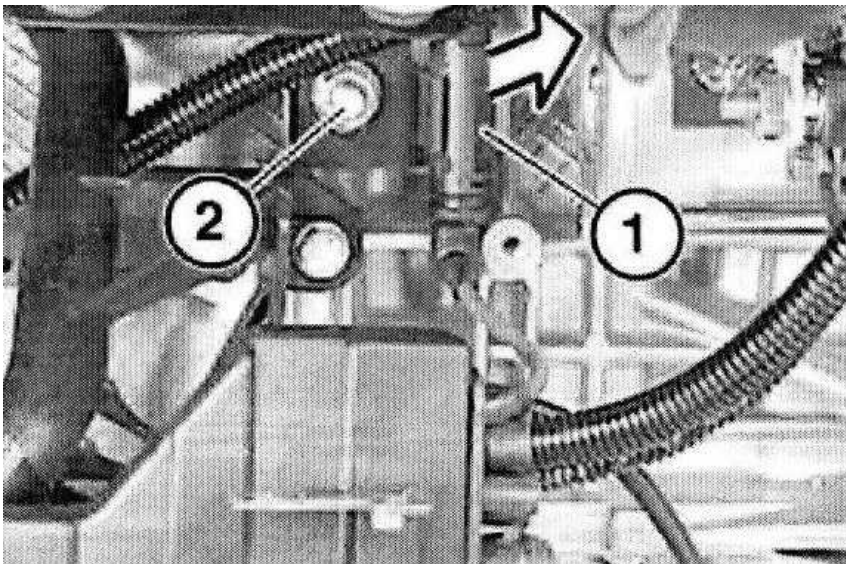
Unlock fuel line (1)

Loosen guide tube for dipstick.

Press lock and detach return line from guide tube for oil dipstick.

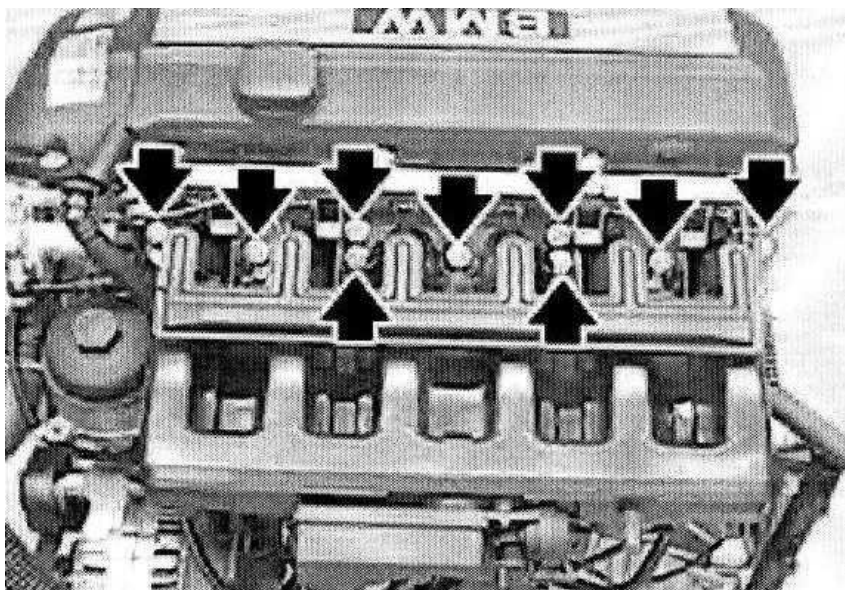
Remove throttle assembly.

Disconnect plug connections and lay cable duct to one side.



Unclip plug connection (1) for knock sensors from holder.

Release nut (2) on manifold support.

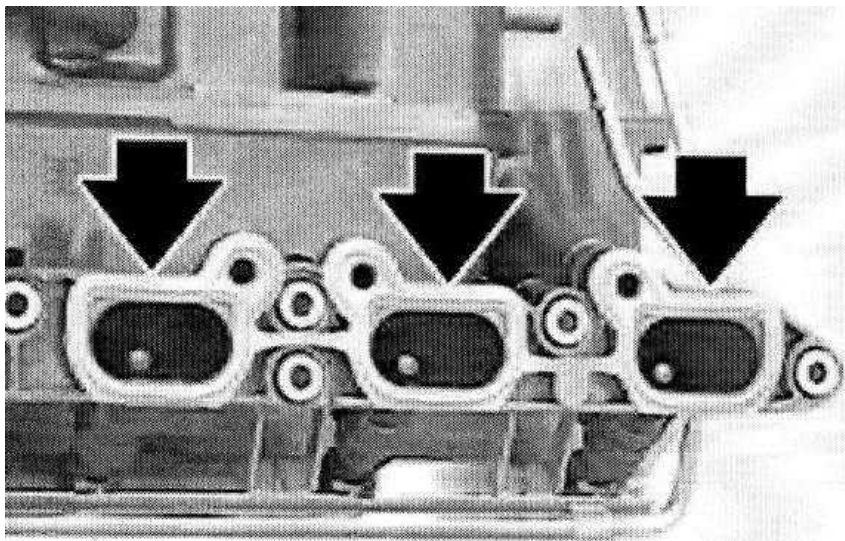


Release nuts on manifold.

Note: Engines with air injection: Detach vacuum line on reverse side of intake air manifold.

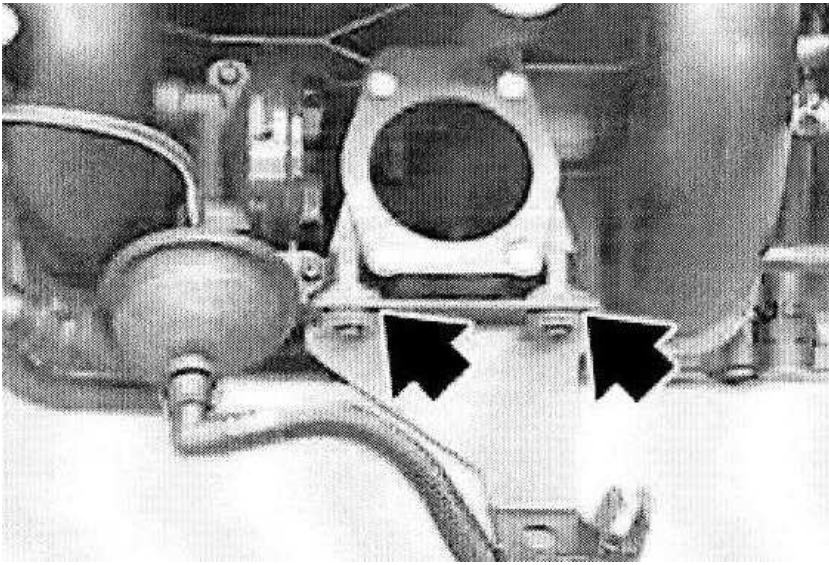
Remove intake air manifold.

Installation:



Check gaskets on all cylinders and replace if necessary.

Installation:



Check rubber dampers and if necessary replace together with manifold support.