

325d Glow plug replacement

Assumptions: This guide is based on a March 2008 UK build RHD 325d with the M57N engine. The guide will be the same for pre LCI 330d models, variations expected for other models. Later cars use different glow plugs, part numbers should be checked with known good sources. **No responsibility accepted for loss or damage to vehicle or persons through using this guide.**



Disconnect battery negative lead – do not close boot lid!

Park on level ground

Engage parking brake

Time allowed for repair 3 hours, further 2 hours if combining with thermostat replacement

Required tools: Sockets 8mm, 10mm, 10mm deep, torx socket selection, torque wrench, flat bladed screwdriver (large & small), thin nosed pliers, allen key/socket

Required parts: 6x glow plugs pn#12237786869, 6x gasket pn#11617790198, 6x gasket pn#11612246945

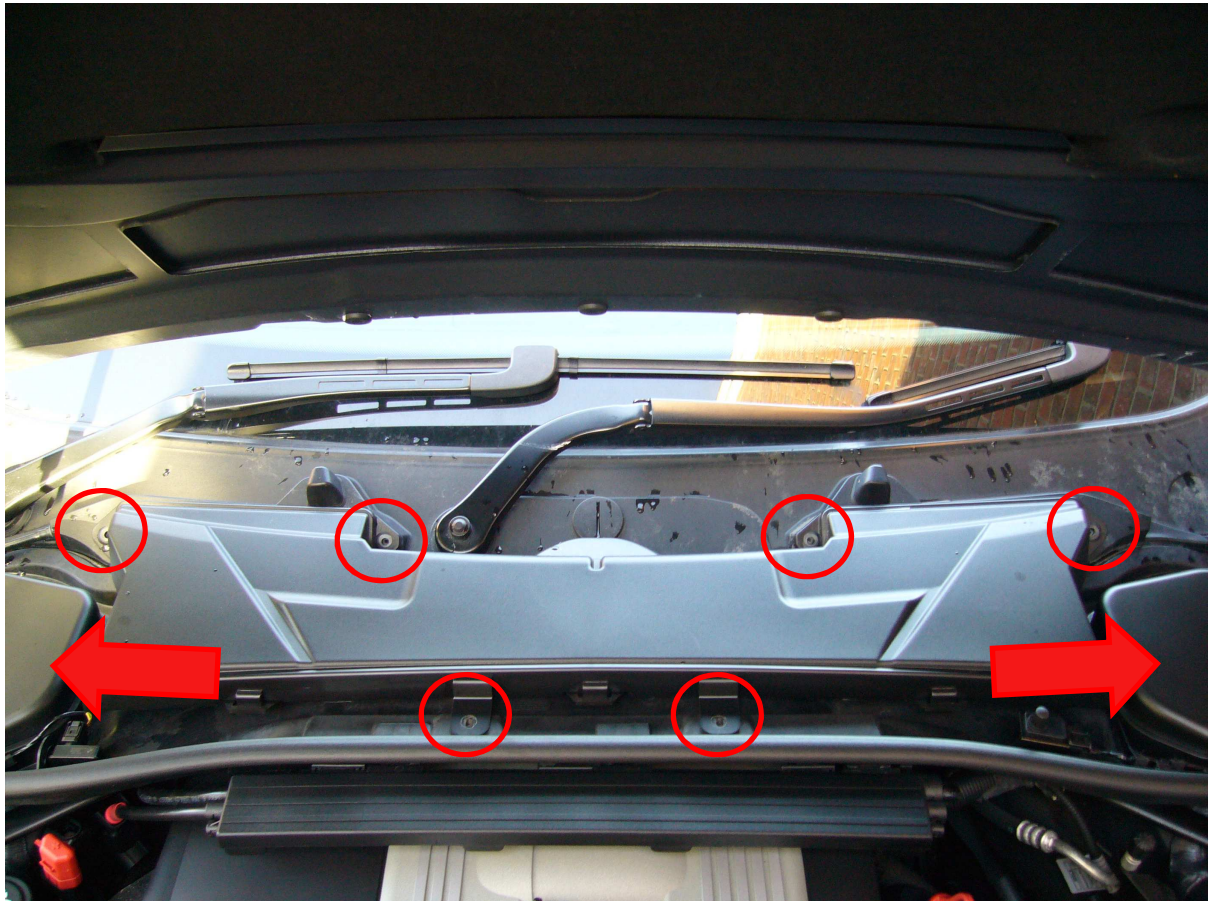
Sundries: Copper grease, Plus Gas

Torque settings:

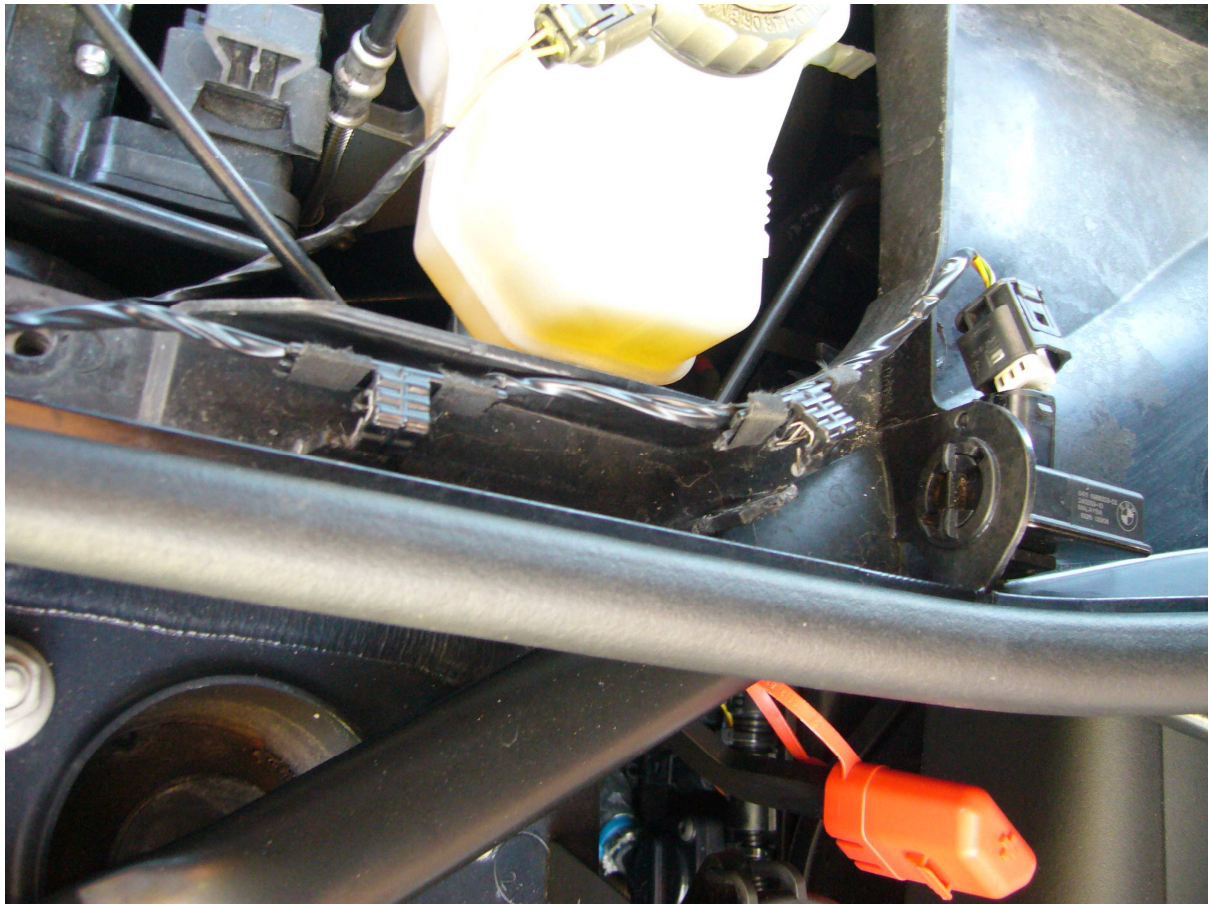
Glow plugs 25nm

Intake manifold M8 thread, 22nm, M7 thread 15nm, M6 thread 10nm

1. Remove brake fluid reservoir cover and ECU cover, undo 6x8mm bolts holding cabin filter and remove.



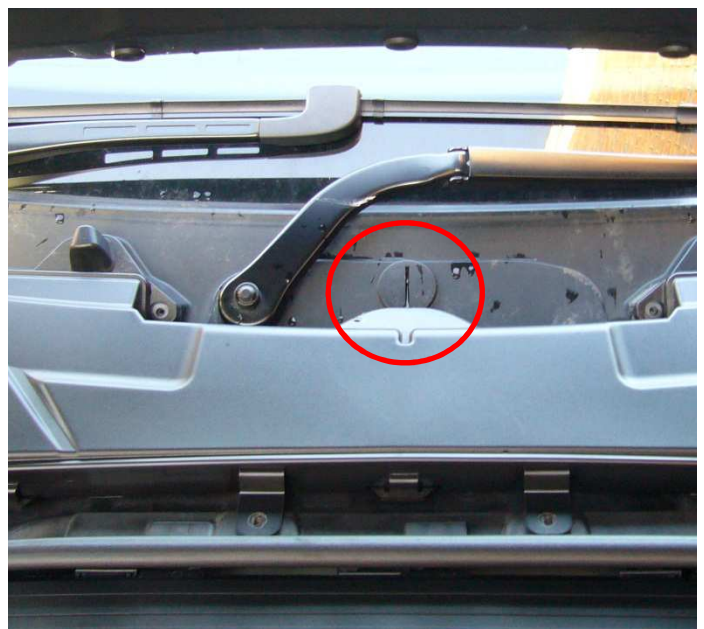
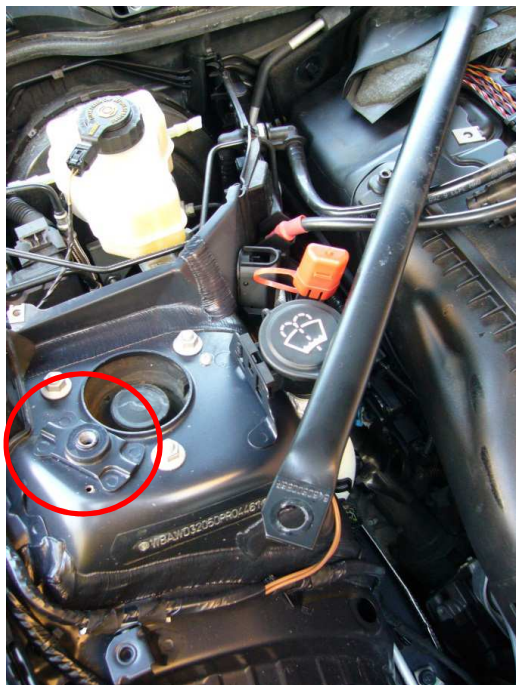
2. Disconnect wiring for bonnet alarm switch on the near side, and the cabin air filter sensor on the off side. The clips can be prised off the posts using a small flat bladed screwdriver.



3. Unclip by pulling gently, the three clips holding the battery and vacuum pipe carrier, this is easily damaged.

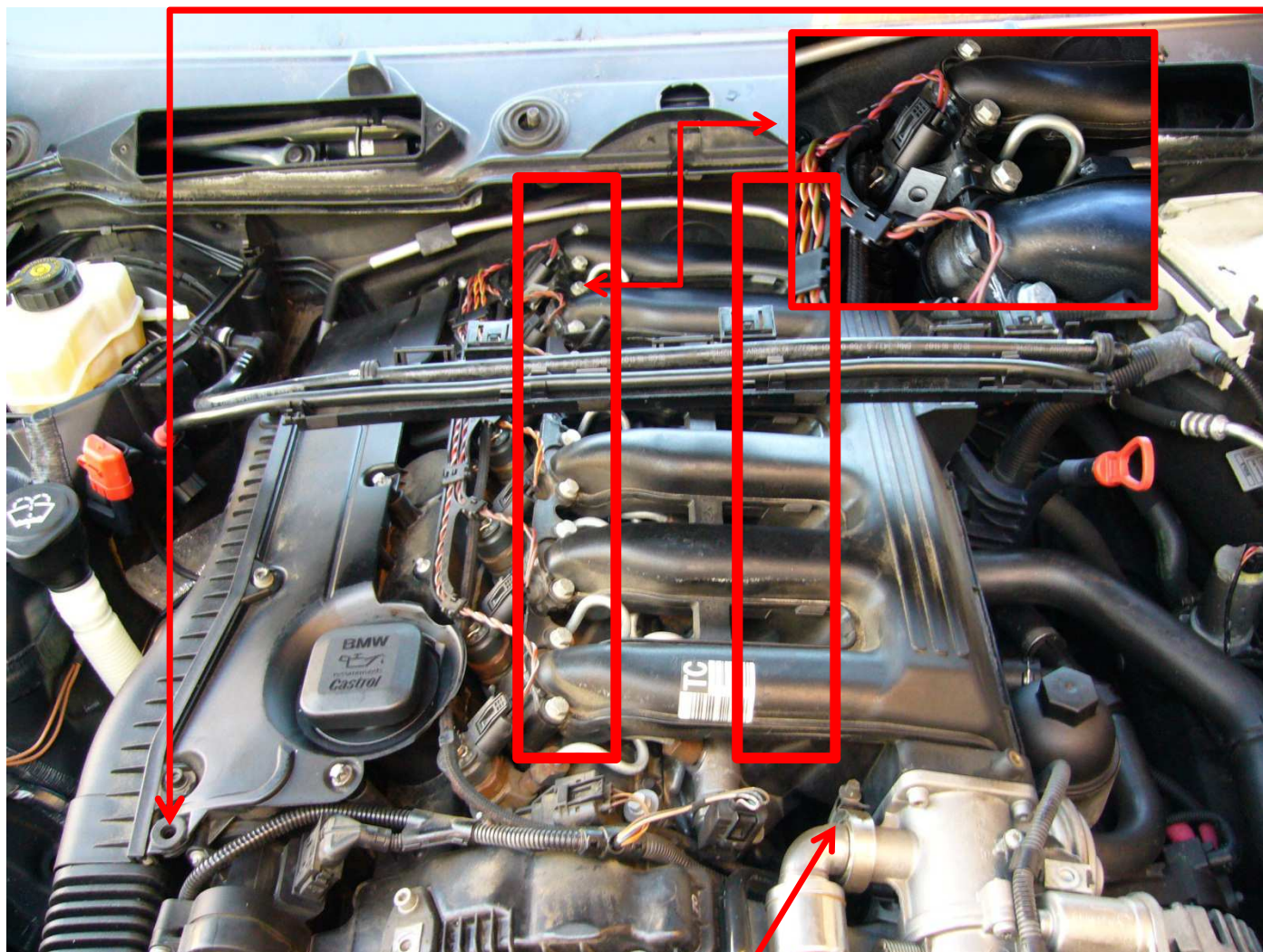


4. Remove the 8mm bolt from either end of the cabin filter cross member support, pull away the rubber bungs holding this panel down to the flaps beneath. The panel is 'tucked' in to the bottom of the windscreen surround, and must be lifted away at an angle.
5. Remove the large bung in the centre of the windscreen wiper trim, this will reveal the torx bolt securing the stabiliser bar, remove this bolt, remove the bolts from the ends of the bar above the suspension struts, and remove the bars.



NB!

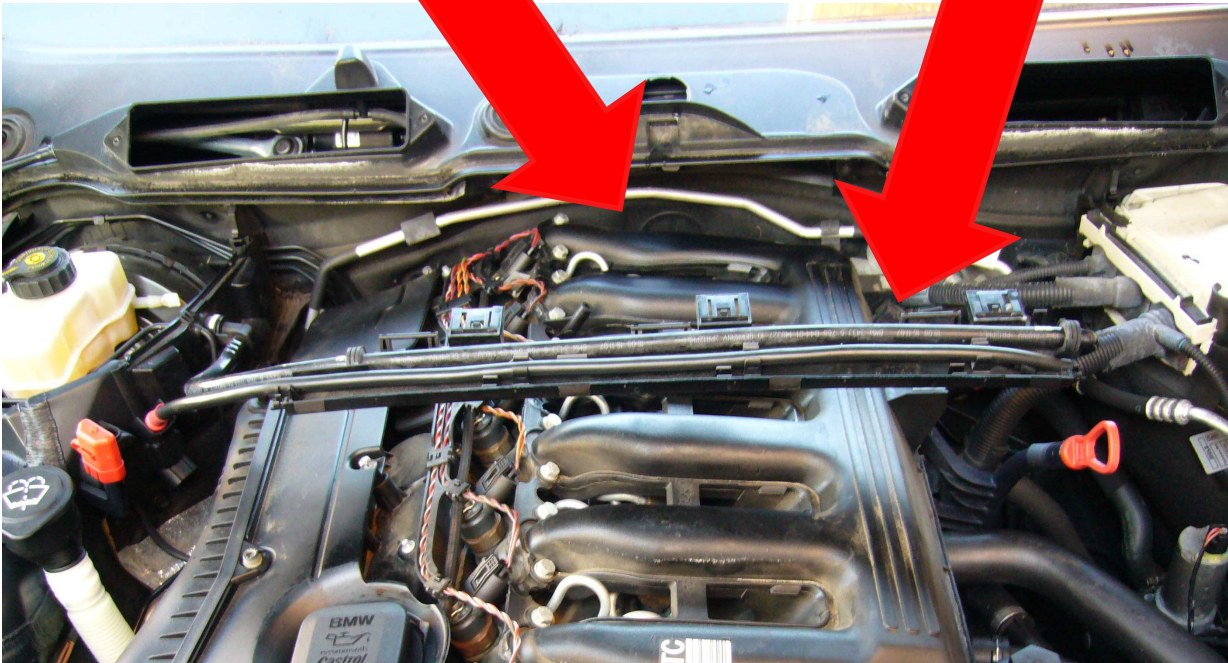
6. Remove the allen bolts holding the engine acoustic cover (4x front, 2x rear) – NB there is a rubber bung securing the left side of the cover, close to the oil filler cap, stressing the cover in this area will result in damage.
7. Remove the bolts holding the intake manifold in place, as marked below, taking note of the engine cover bracket 3 bolts from the back (inset). Some bolts are recessed – these are loose and will need to be carefully removed using thin nosed pliers so as not to drop them.



8. Disconnect EGR valve jubilee clip (seen in bottom right of above photo) Remove the associated plugs and wiring.



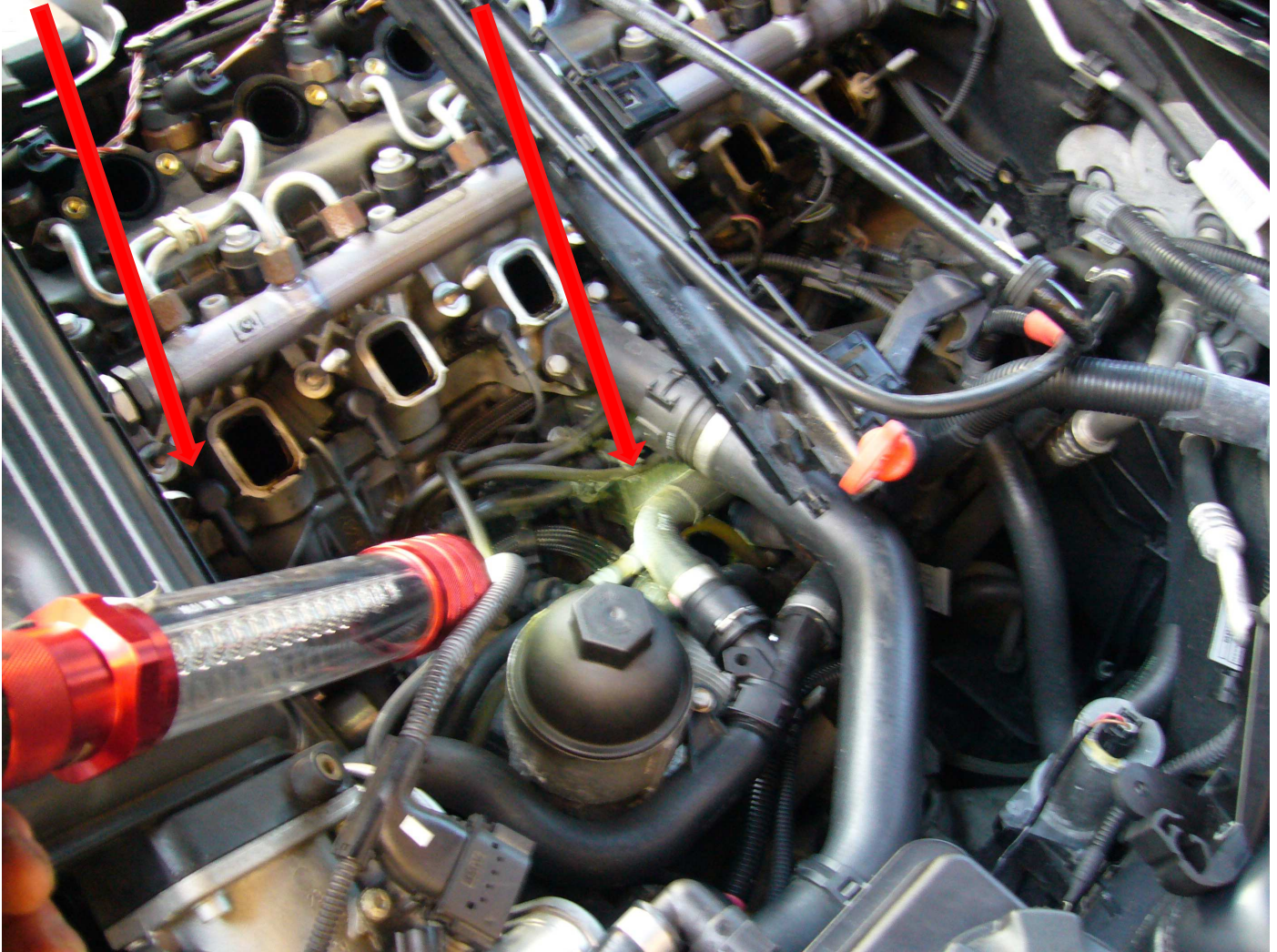
9. Remove wiring connectors, one located on the right of the inlet manifold, and one on the back of the inlet manifold – this fouls the inlet manifold when trying to lift it off. There is also a small bolt holding two brackets to the rear, marked here (not visible) this must be removed.



10. Lift away the inlet manifold – be wary of the vacuum pipe from the EGR valve, personally I could not remove this, in which case the manifold can be rotated and rested on the fan housing (seen here bottom left).

Glow plugs

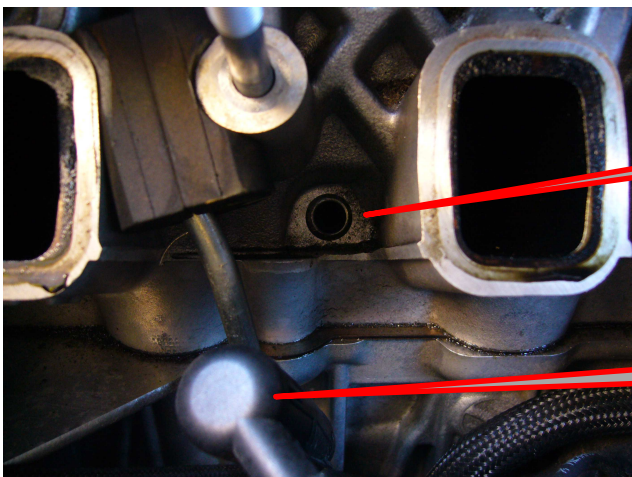
Glow plug controller location (mounted on rear bulkhead on LCI models)



11. Remove the glow plug connectors, these are simple squeeze tabs. Apply plus gas to the base of the glow plugs and leave for 1 hour – this is a good time to start changing the thermostats if you intend to take this opportunity. Also worth noting; location of controller, can be easily changed while you have access.

1 hour later

12. Remove the glow plugs using the deep 10mm socket.



Glow plug hole

Glow plug connector

13. Apply copper grease to threads of new glow plugs and torque up.
14. Replace gaskets on inlet manifold and assemble in reverse, ensuring all connectors are seated and bolts torqued up.