

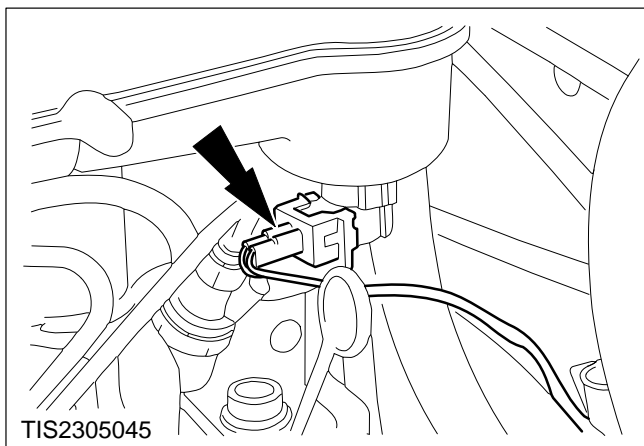
Turbocharger – Remove And Install (23 612 0)

Remove

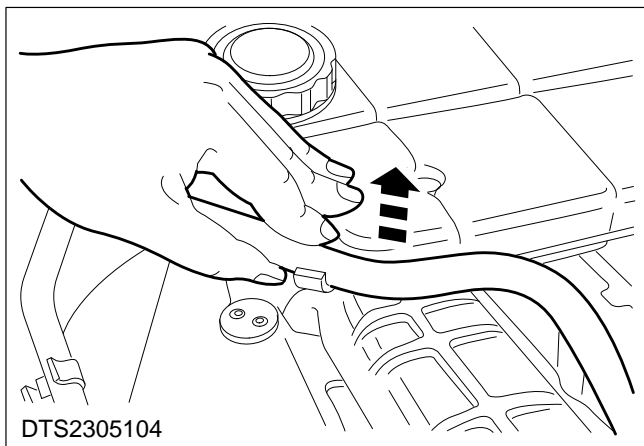
⚠ CAUTION: Disconnect the battery negative lead.

NOTE: It will be necessary to raise the vehicle during this procedure.

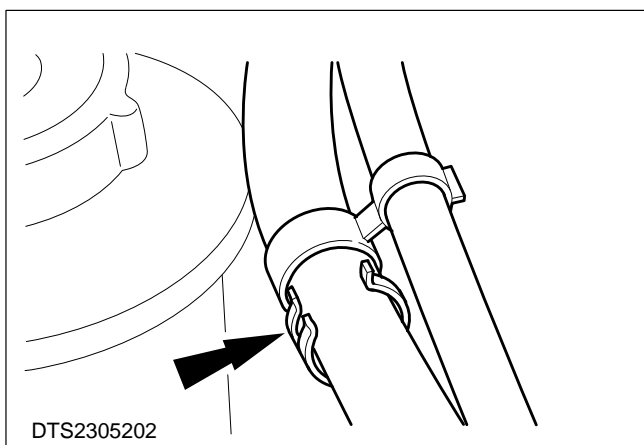
1. **Disconnect the engine coolant low level warning switch multiplug.**

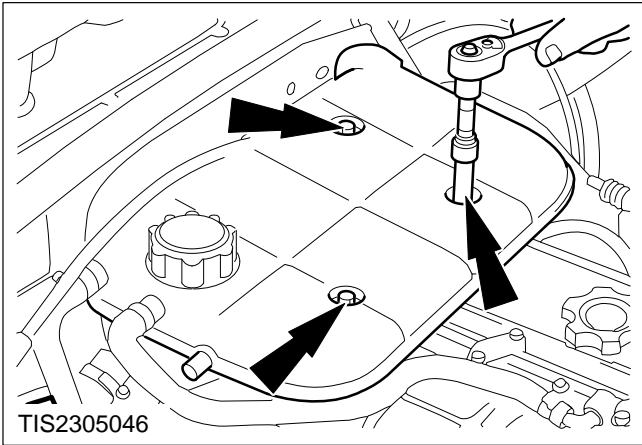


2. **Detach the engine coolant hose from the expansion tank.**

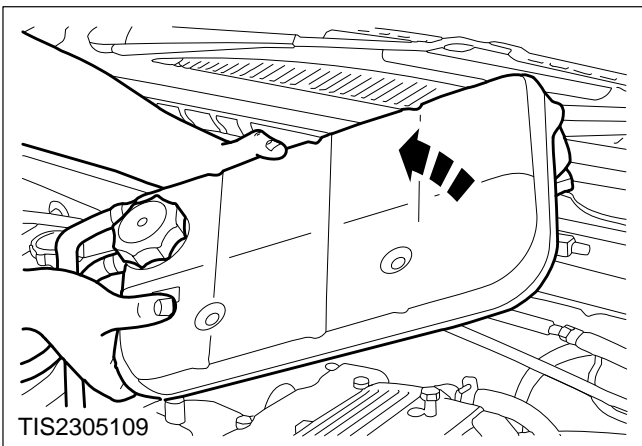


3. **Detach the engine coolant hose from the retaining bracket.**

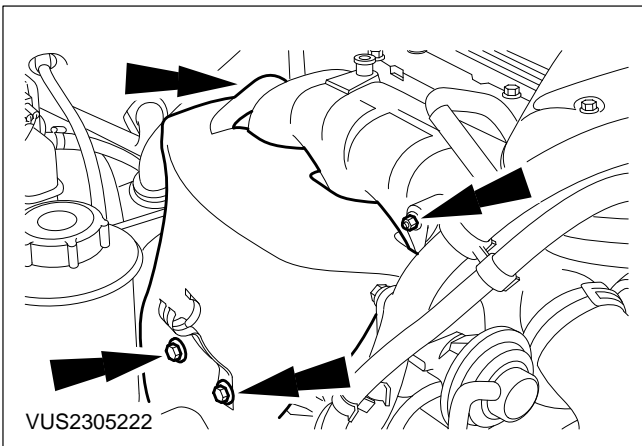




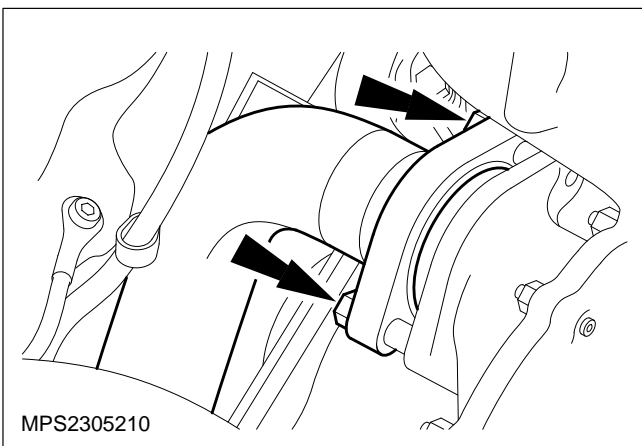
4. Remove the three expansion tank retaining screws.



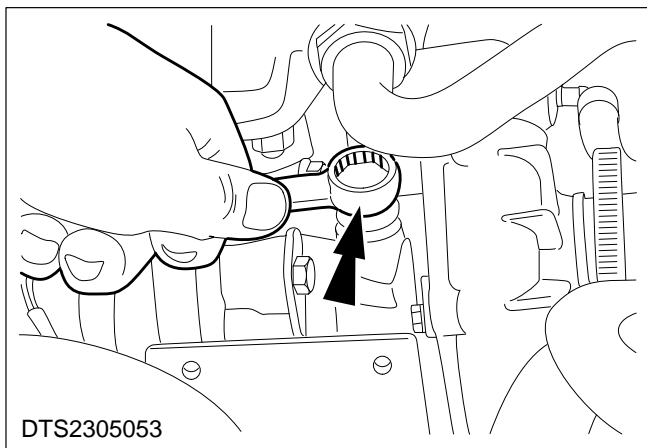
5. Position the expansion tank to one side.



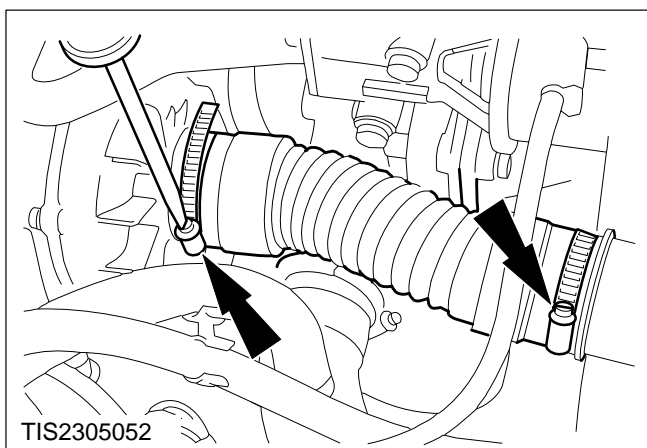
6. Remove the exhaust manifold heat shield (four bolts).



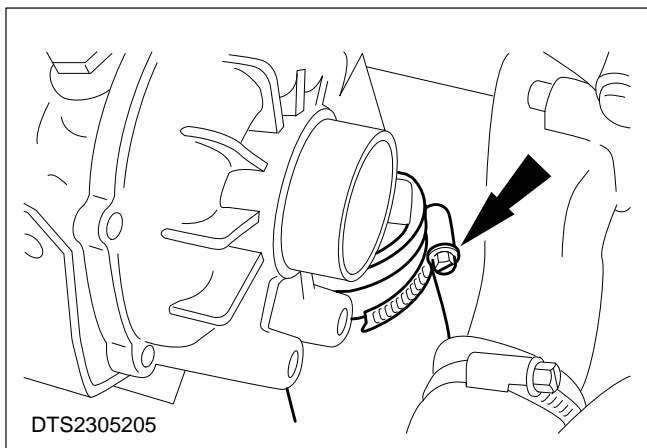
7. Disconnect the downpipe from the exhaust manifold (two nuts).



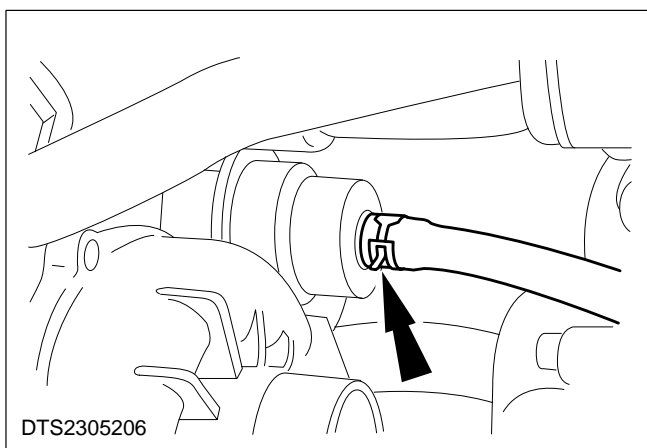
8. Disconnect the turbocharger oil supply pipe.



9. Remove the turbocharger compressor intake pipe (two clips).

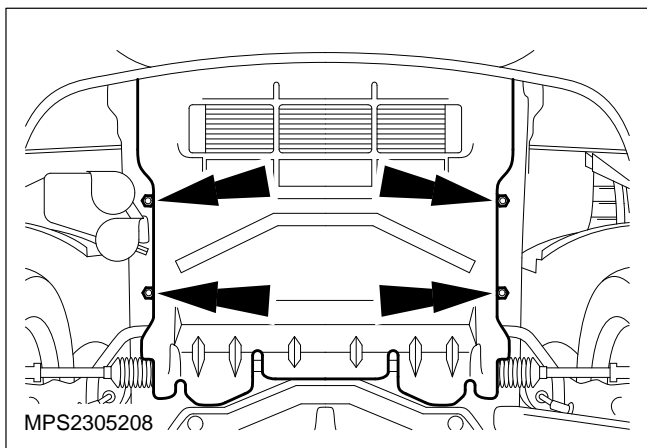


10. Detach the charge air cooler to turbocharger compressor pipe (one clip).

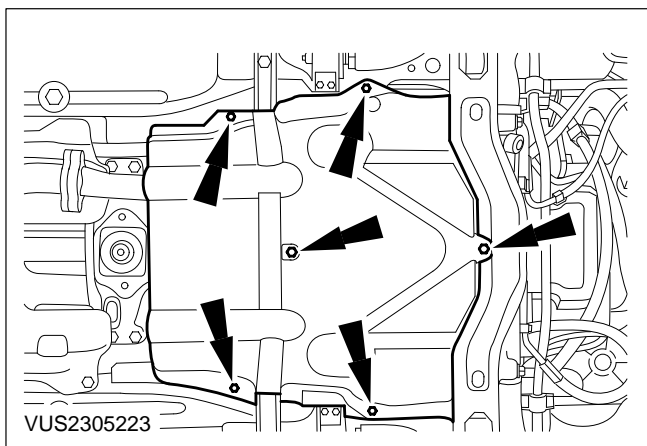


11. Disconnect the waste gate pipe (one clip).

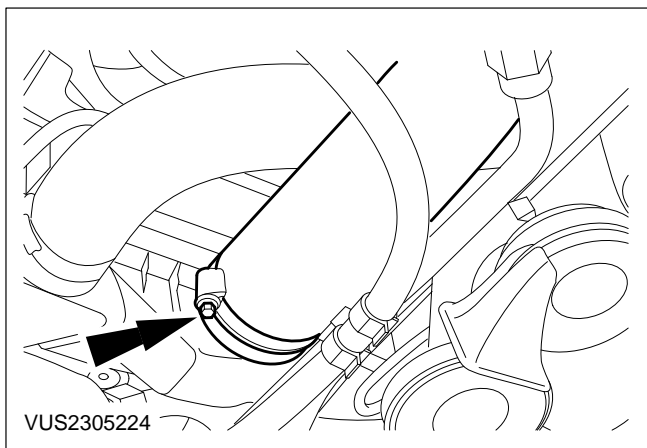
12. Raise the vehicle.



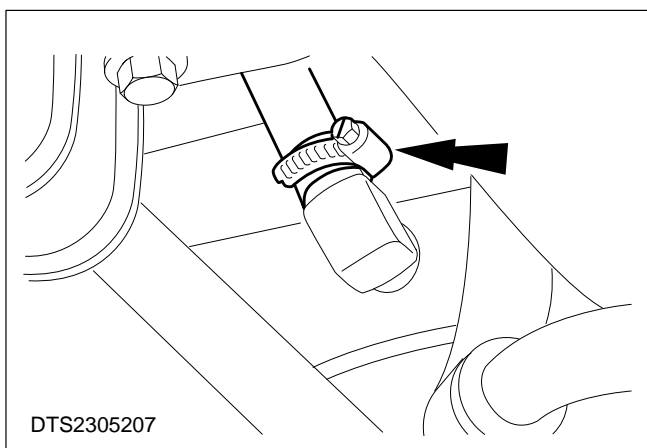
13. Remove the engine undershield (four bolts).



14. Remove the transmission undershield (six bolts).

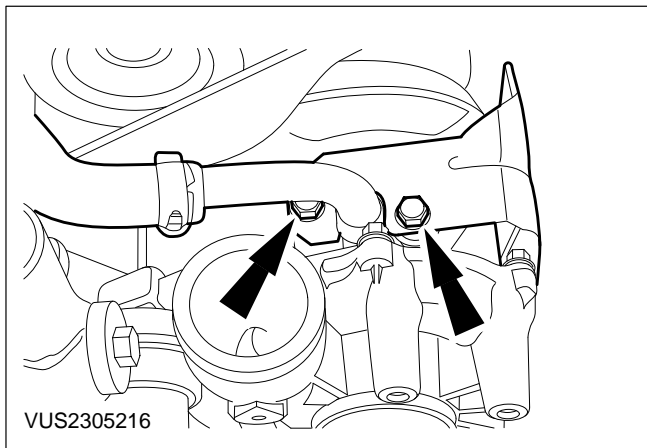


15. Remove the charge air cooler to turbocharger compressor pipe (one clip).

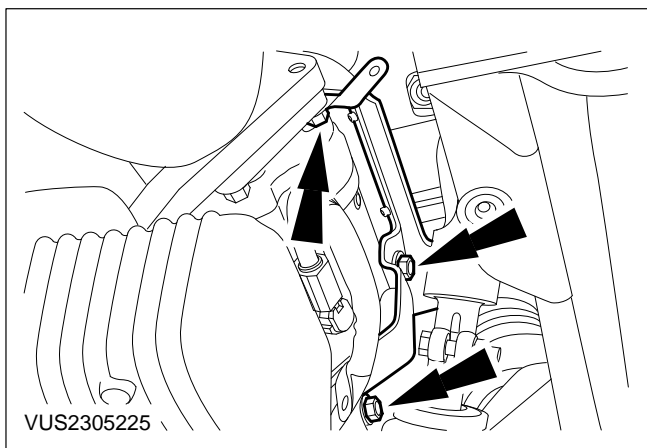


NOTE: Before disconnecting the oil return pipe, place a drain tray under the pipe to collect any oil drips.

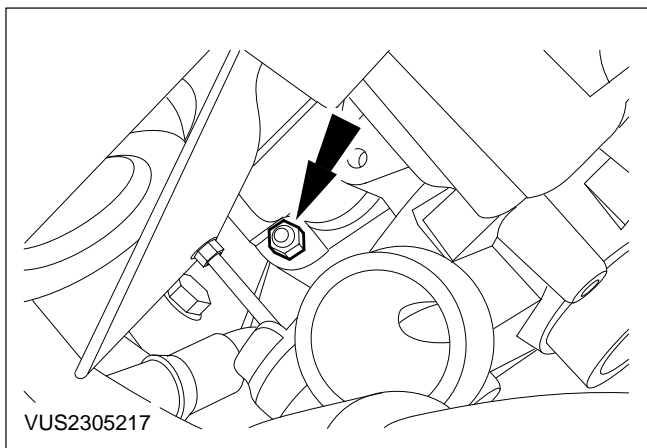
16. Disconnect the turbocharger oil return pipe (one clip).



17. Remove the support bracket and the turbocharger oil return pipe (two bolts).

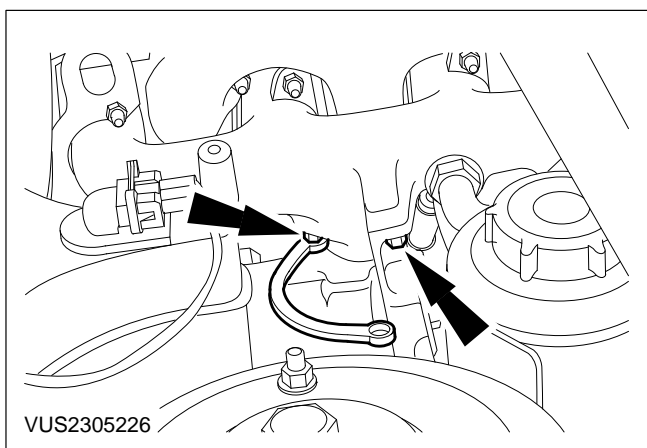


18. Remove the starter motor heat shield (three bolts).

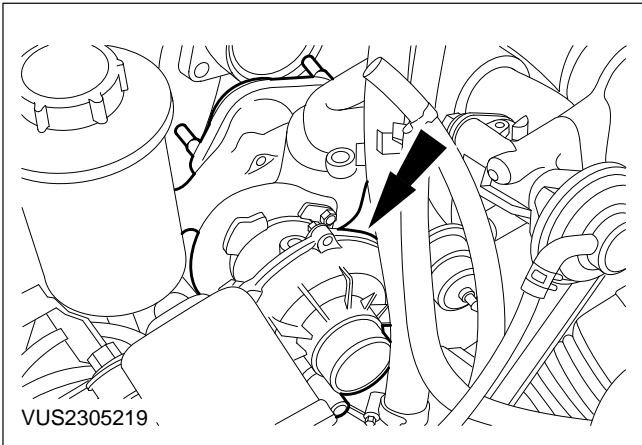


19. Remove the turbocharger to exhaust manifold rear retaining nut.

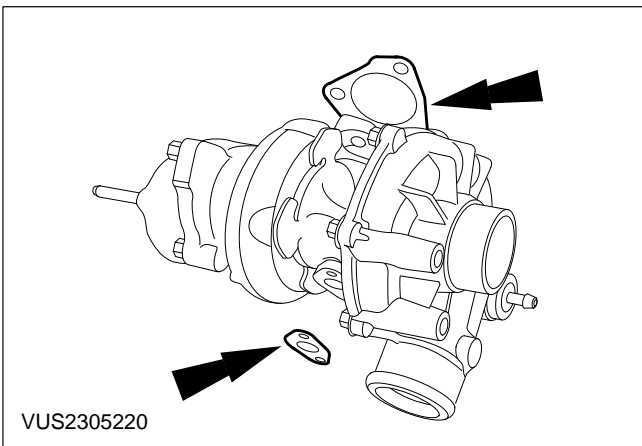
20. Lower the vehicle.



21. Remove the turbocharger to exhaust manifold retaining nuts (right-hand drive shown).

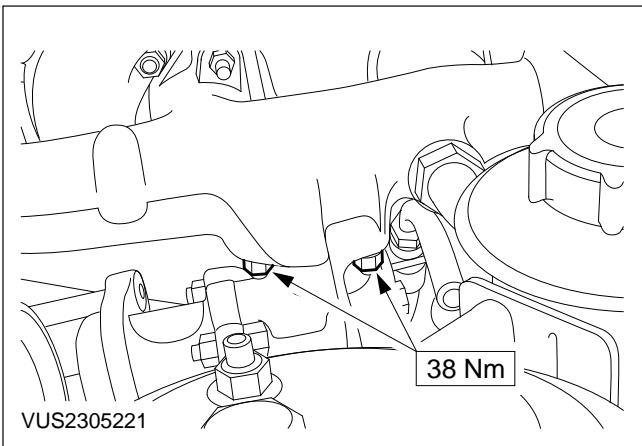


22. Remove the turbocharger assembly.



Install

23. Fit new gaskets to the oil return pipe and to the exhaust manifold.



24. Refit the components in the reverse order.

