

## Exhaust Manifold – Remove and Install – Right-hand Cylinder Head (21 186 0)

### Materials

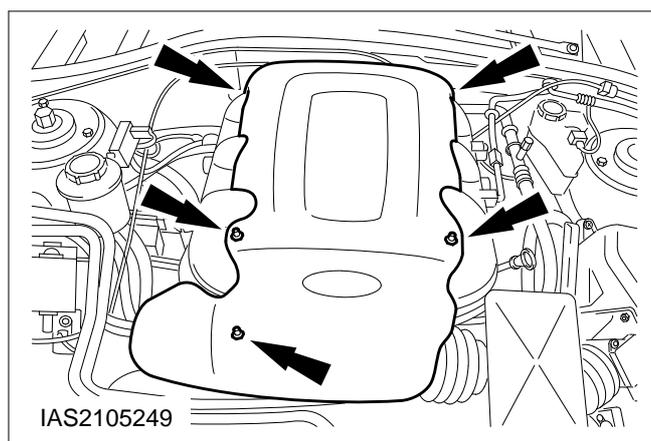
Cable ties	
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### Remove

#### 1. Standard preparatory operations

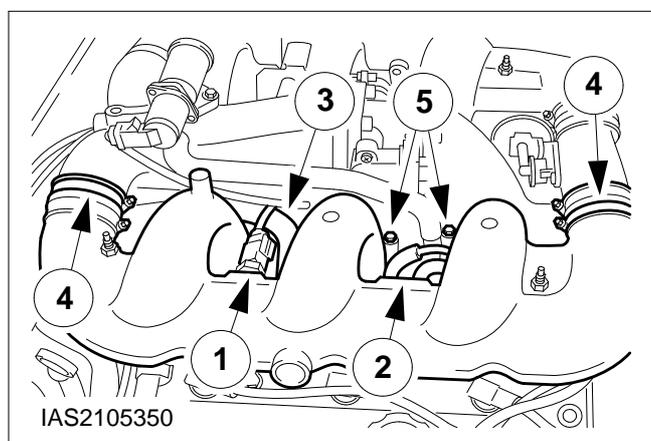
- Lay protective covers over the fenders.
- If necessary cut the cable ties and renew them on installation.

#### 2. Remove the intake system cover.

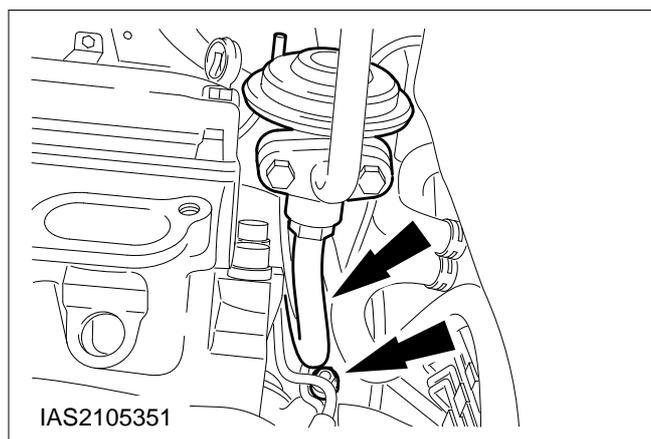


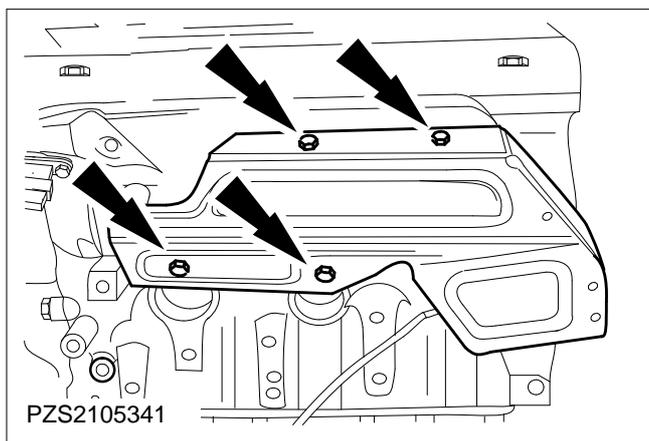
#### 3. Remove the right-hand inlet manifold.

- 1 Disconnect the multiplug from the intake air temperature sensor (IAT sensor).
- 2 Disconnect the two vacuum hoses.
- 3 Disconnect the positive crankcase ventilation (PCV) hose and the vacuum hose.
- 4 Remove the connecting hoses for the intake system.
- 5 Remove the six inlet manifold bolts.

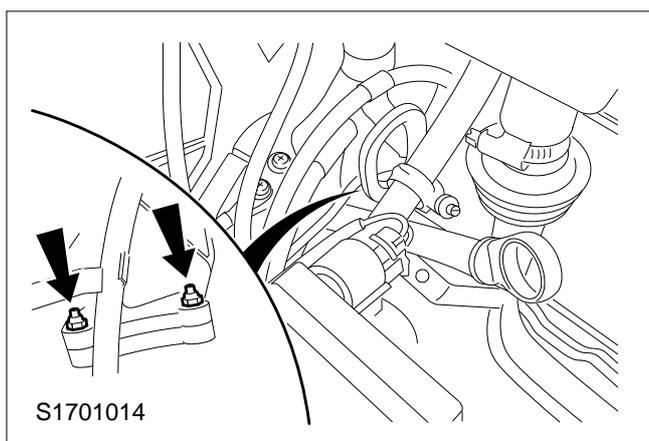


#### 4. Remove the bolts from the exhaust gas recirculation (EGR) valve.



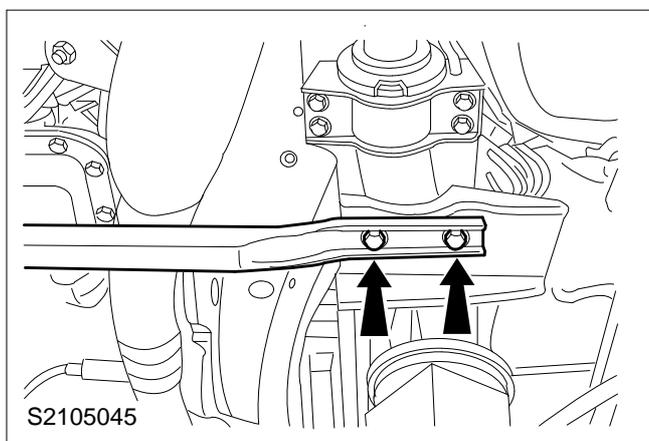


5. Remove the right-hand heat shield (left-hand side shown).

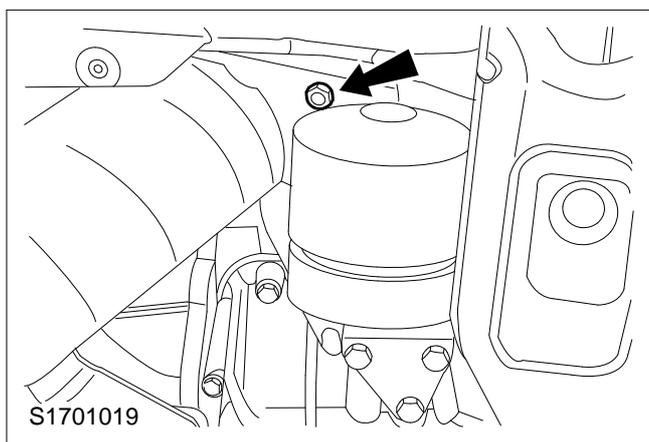


6. Remove the upper exhaust manifold bolts from the catalytic converter.

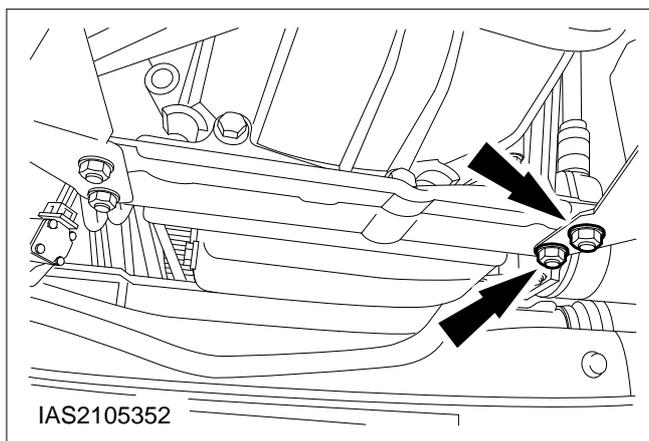
Raise the vehicle.



7. Detach the transverse brace from the front crossmember (left-hand side shown).

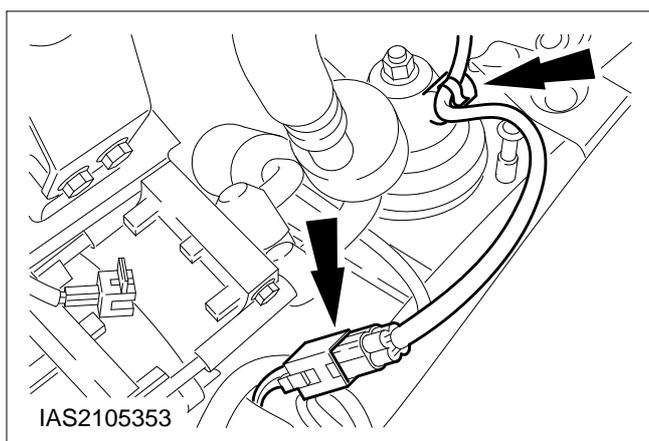


8. Remove the lower exhaust manifold nut from the catalytic converter.

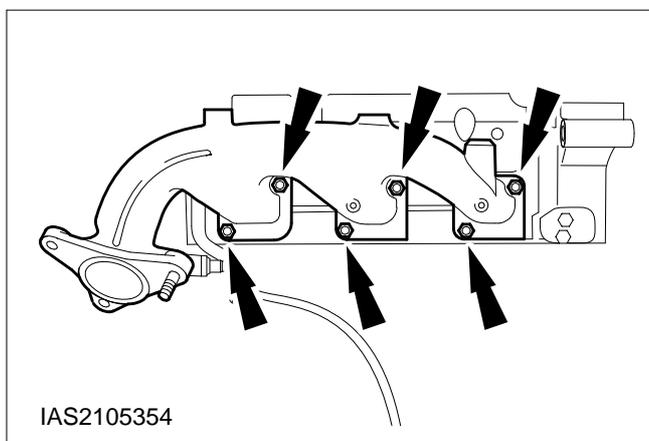


**9. Detach the right-hand catalytic converter from the bracket.**

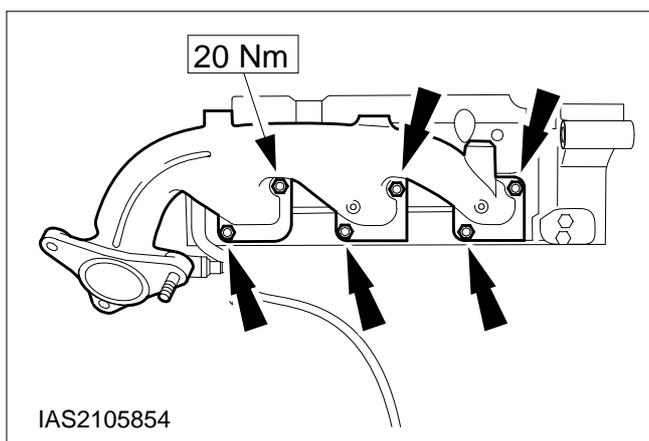
Lower the vehicle.



**10. Disconnect the HO2S multiplugs and detach them from the engine mounting (left-hand side shown).**

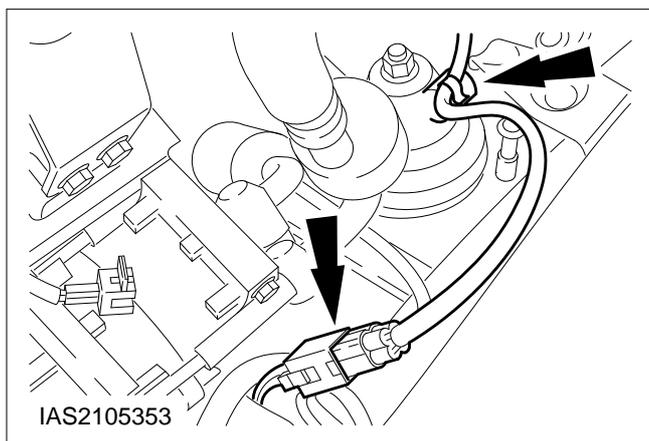


**11. Remove the exhaust manifold.**



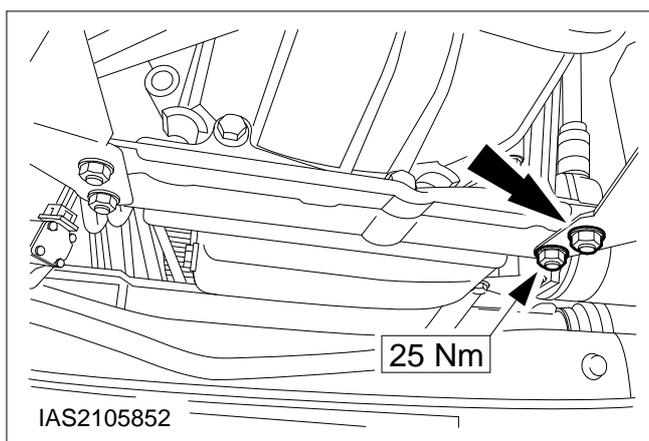
Install

**12. Fit the exhaust manifold with new gaskets.**

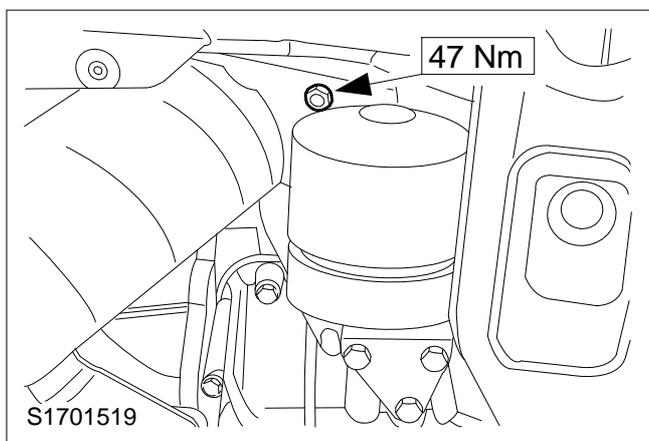


- 13. Connect the HO2S multiplugs and attach them to the engine mounting (left-hand side shown).**

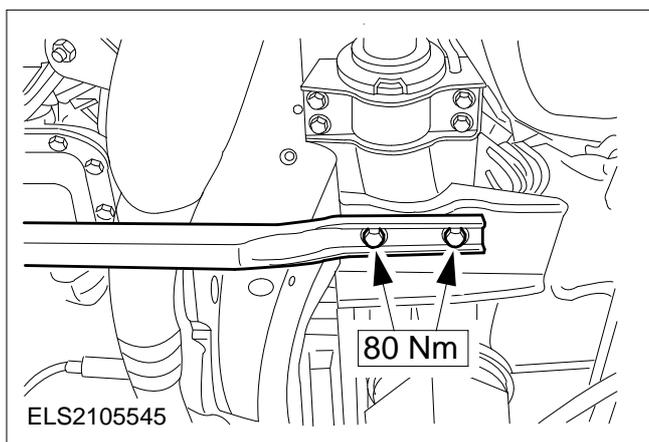
Raise the vehicle.



- 14. Fit the right-hand catalytic converter to the bracket.**

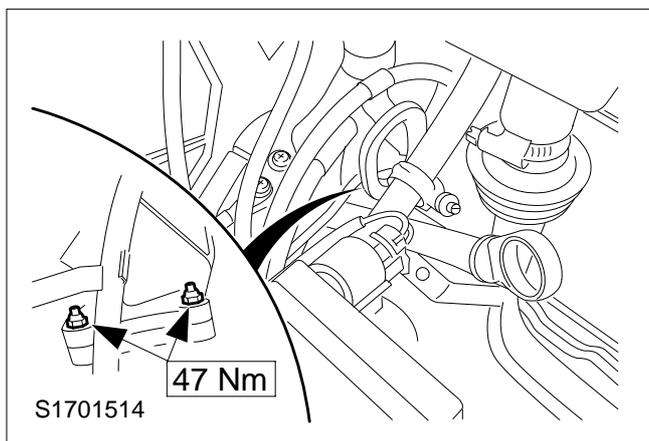


- 15. Fit the lower exhaust manifold nut to the catalytic converter.**

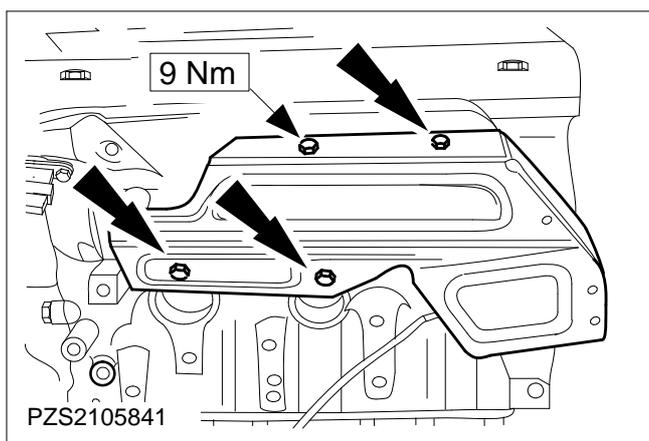


- 16. Attach the transverse brace to the front crossmember (left-hand side shown).**

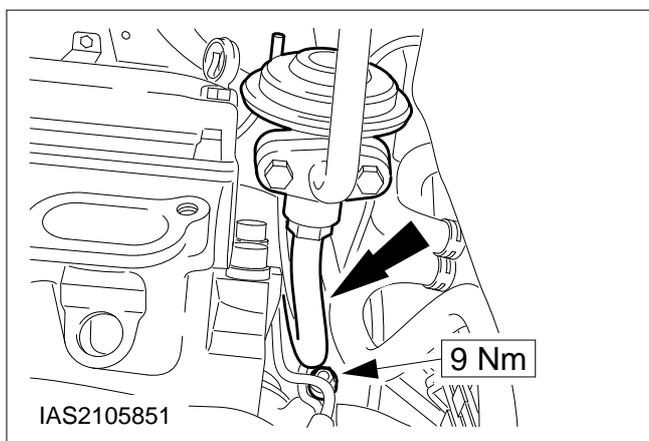
Lower the vehicle.



**17. Screw the upper exhaust manifold nuts onto the catalytic converter.**



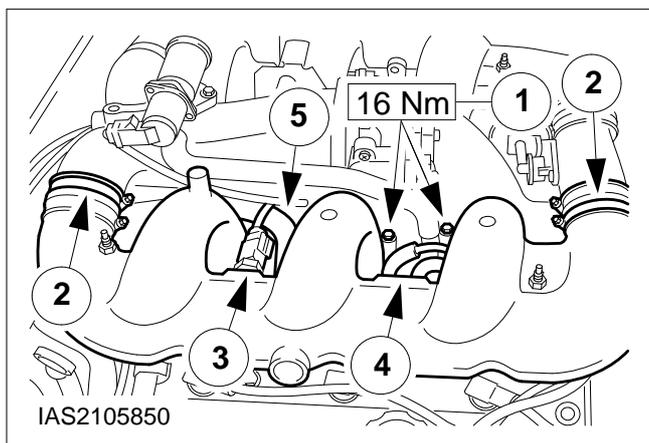
**18. Fit the right-hand heat shield (left-hand side shown).**



**19. Fit the EGR valve bolts.**

**NOTE:** Do not scratch the mating face.

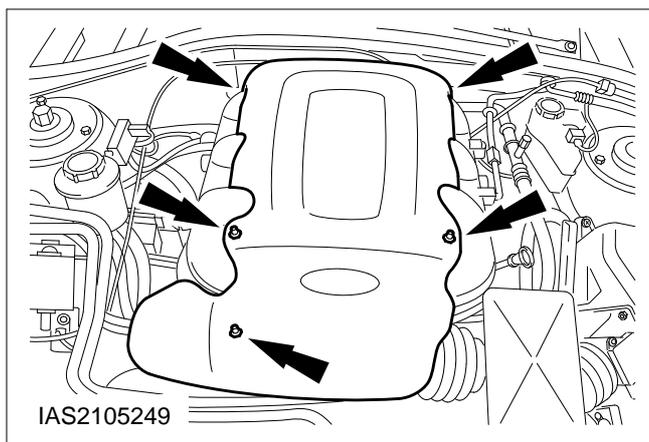
**20. Clean the mating face of the inlet manifold with a scraper.**



**NOTE:** Use a new gasket.

**21. Attach the right-hand inlet manifold.**

- 1 Fit the six inlet manifold bolts.
- 2 Fit the connecting hoses for the intake system.
- 3 Push on the PCV hose and the vacuum hose.
- 4 Push on the two vacuum hoses.
- 5 Connect the IAT sensor multiplug.



**22. Fit the intake system cover.**