Sump – Remove and Install (21 154 0)

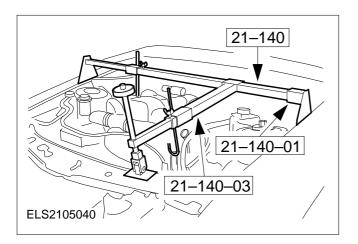
Proprietary Tools

Scraper

Workshop Equipment

Transmission jack	

ELS2105041



Materials

Cable ties	
Sealer for sump	ESK-M4G269
Oil drain plug seal	
4.2 litres of engine oil	see General Specifications

Remove

NOTE: The hydraulic lines are not separated.

1. Standard preparatory operations

- Make a note of the radio keycode.
- Make a note of the preset radio stations.
- Lay protective covers over the fenders.
- Detach the battery cover.

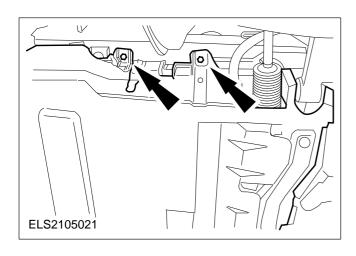
CAUTION: Disconnect the battery ground lead.

- If necessary cut the cable ties and renew them on installation.
- Remove the oil filler plug from the cylinder head cover.

2. Detach the steering intermediate shaft.

3. Attach the engine support bar.

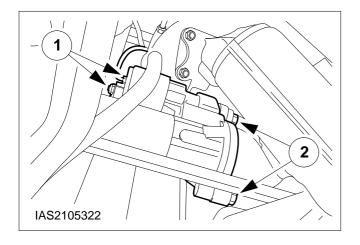
Raise the vehicle.



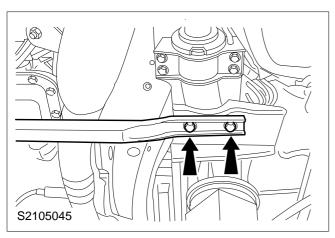
4. Detach the engine undershield (left-hand side shown).

5. Drain the engine oil by removing the drain plug.

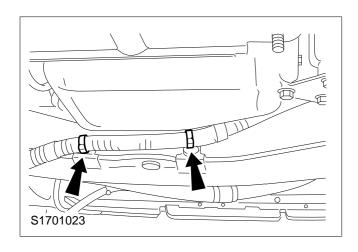
Screw the drain plug back in with a new seal.



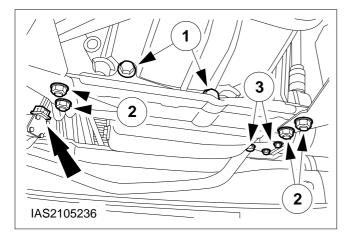
- 6. Remove the starter motor.
 - Disconnect the starter motor.
 - · Remove the starter motor.



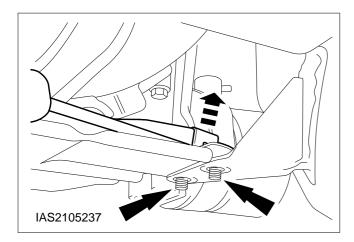
7. Detach the transverse brace from the front crossmember (left-hand side shown).



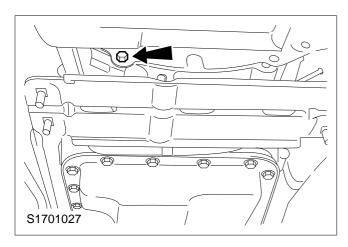
8. Remove the wiring loom from the front crossmember.



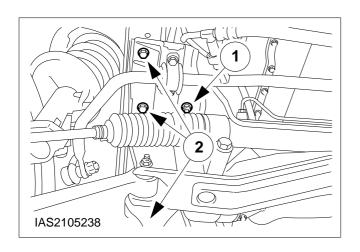
- 9. Remove the brackets and disconnect the multiplug.
 - 1 Catalytic converter bracket from the transmission.
- 2 Catalytic converter bracket from the catalytic converter.
- 3 Bracket for the oil filter connector.Power steering pressure switch multiplug.



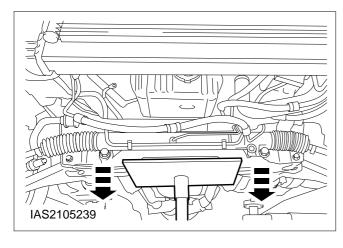
10. Undo and remove the bolts from the retaining plate and push the retaining plate slightly backwards.



11. Unscrew the adaptor plate bolt.

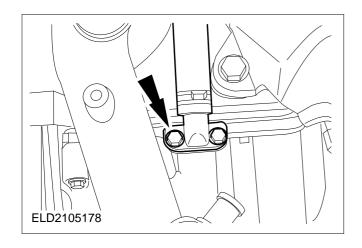


12. Support the front crossmember with a transmission jack.

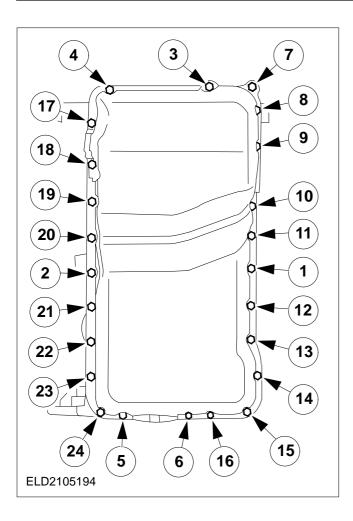


13. Detach the engine mounting and the front crossmember.

14. Lower the front crossmember 150 mm with the transmission jack and tie it up.



15. Remove the positive crankcase ventilation (PCV) connector (right-hand side shown).



NOTE: Bolt-slackening sequence.

NOTE: The bolts have different lengths.

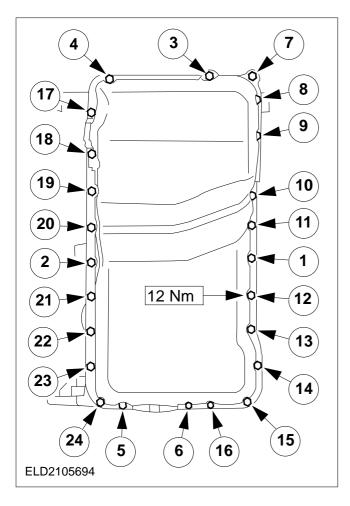
16. Remove the sump.

Install

17. Preparations.

NOTE: Take care not to damage the mating faces.

 Thoroughly clean all mating surfaces with a scraper, check them for damage and renew them as necessary.



18. Fit the sump gasket.

Coat the ends of the gasket components with sealer (ESK–M4G269).

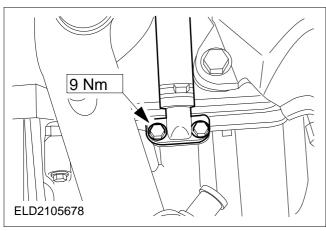
NOTE: Bolt tightening sequence.

19. Fit the sump.

• Bolts five and six: M6 x 115

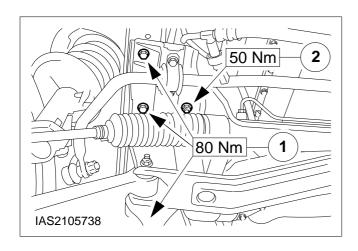
• Bolts 23 and 24: M6 x 45

• All other bolts: M6 x 20

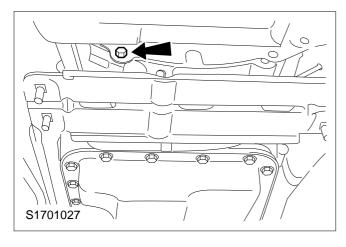


20. Fit the PCV connector (right-hand side shown).

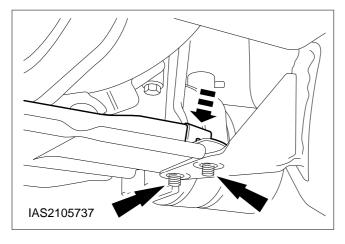
21. Move the front crossmember into installation position.



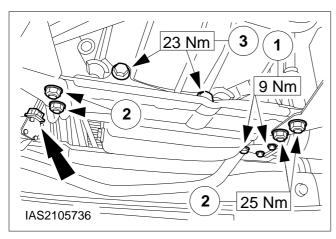
22. Attach the engine mounting and the front crossmember.



23. Fit the bolt on the adapter plate.

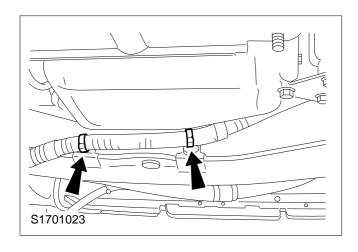


24. Insert the bolts into the catalytic converter bracket and fit the bolts into the retaining plate.

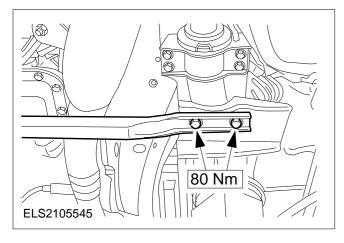


- 25. Fit the brackets and connect the multiplug.
 - 1 Bracket for the oil filter connector.
 - 2 Catalytic converter bracket to the catalytic converter.
 - 3 Catalytic converter bracket to the transmission.

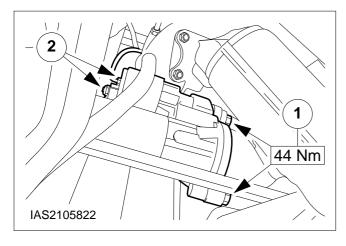
PSP switch multiplug.



26. Attach the wiring loom to the front crossmember (cable ties).

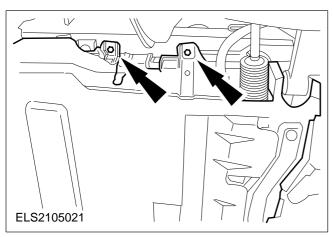


27. Attach the transverse brace to the front crossmember (left-hand side shown).



28. Install the starter motor.

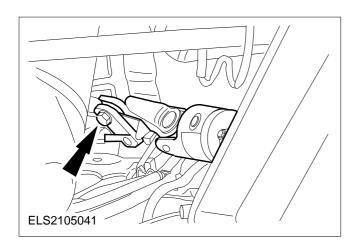
- Install the starter motor.
- Connect the starter motor wiring.



29. Fit the engine undershield (left-hand side shown).

Lower the vehicle.

30. Detach the engine support bar.



31. Attach the steering intermediate shaft.

32. Fill up with engine oil.

Screw the oil filler plug into the cylinder head cover.

33. Standard finishing operations.

- Connect the battery ground lead.
- Fit the battery cover.
- Enter the radio keycode.
- Reprogramme the preset radio stations.
- · Reset the clock.
- Remove the protective covers.
- Check the fluid levels and correct as necessary.
- Carry out a road test to enable the powertrain control module (PCM) to gather data.
- Check the fluid levels again and correct as necessary.