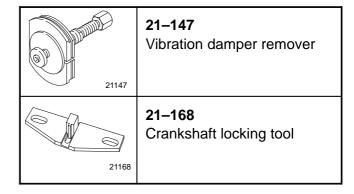
Oil Seal - Crankshaft Front - Renew (21 467 0)

Special Tools

21051	21–051 Oil seal remover
21137	21–137 Oil seal installer/aligner



Materials

Cable ties	
------------	--

Renew

1. Standard preparatory measures:

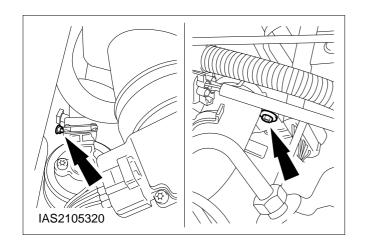
- Lay protective covers over the fenders.
- Make a note of the radio keycode.
- Make a note of the preset radio stations.
- Detach the battery cover

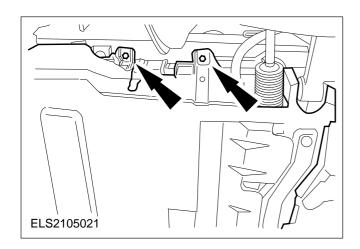
CAUTION: Disconnect the battery ground lead.

• Cut the cable ties if necessary and renew them during installation.

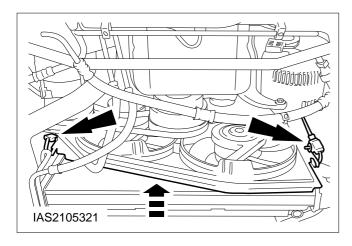
2. Remove the radiator fan shroud.

Raise the vehicle.



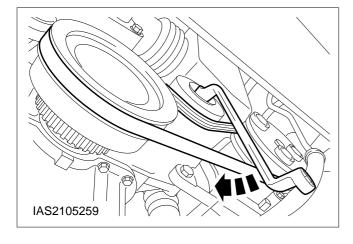


3. Detach the engine undershield.



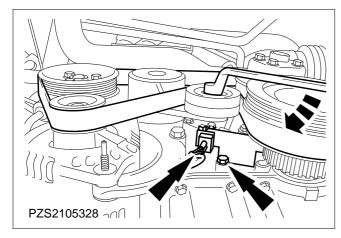
4. Remove the radiator fan shroud (continued).

- Disconnect the fan motor plug and detach the wiring from the radiator fan shroud.
- Push the radiator fan shroud upwards out of the grommets and lift it out downwards.



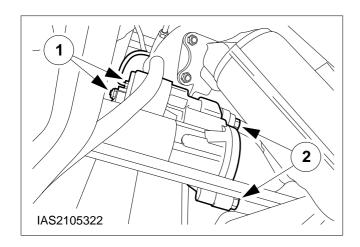
5. Remove the air conditioning multi-groove belt.

- Take the pressure off the belt by turning the tensioning pulley clockwise.
- Remove the multi-groove belt.

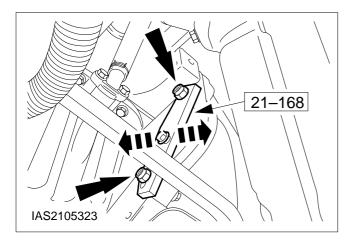


6. Remove the multi-groove belt of the alternator/power steering pump and the crankshaft position (CKP) sensor.

- Take the pressure off the belt by turning the tensioning pulley clockwise.
- · Remove the multi-groove belt.
- Remove the crankshaft position (CKP) sensor and disconnect the plug.

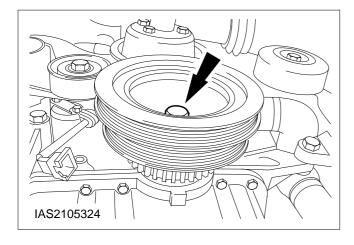


- 7. Remove the starter motor.
 - 1 Disconnect the starter motor.
- 2 Remove the starter motor.

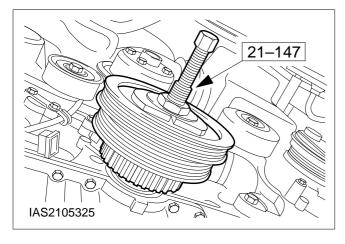


NOTE: The special tool must locate firmly between the flywheel teeth.

8. Fit the flywheel locking tool.

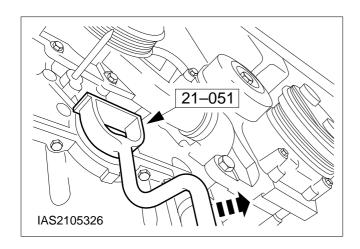


9. Undo the vibration damper bolt about 20 mm.

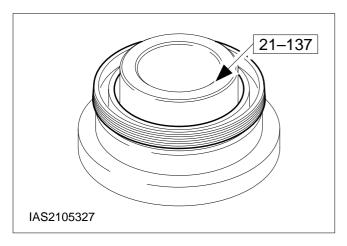


10. Pull off the vibration damper.

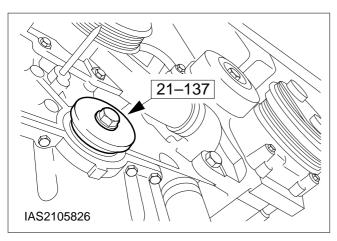
- Pull the vibration damper off the crankshaft.
- Remove the puller and unscrew and remove the bolt.
- · Remove the vibration damper.



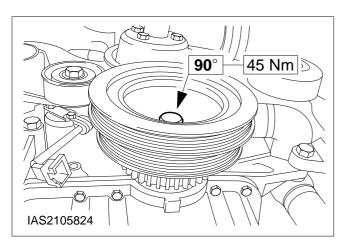
11. Remove the crankshaft front oil seal.



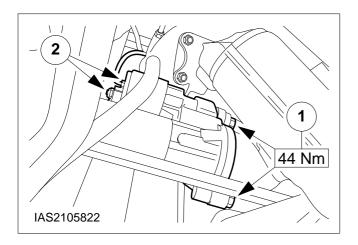
12. Push a new seal onto the installer.



13. Install the crankshaft front oil seal.

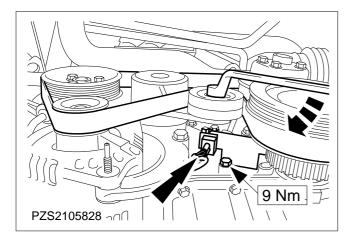


14. Fit the vibration damper.



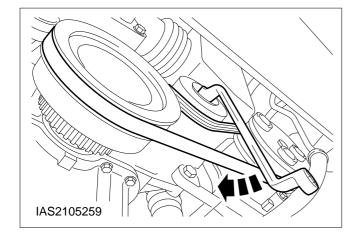
15. Remove the flywheel locking tool.

- 16. Install the starter motor.
 - 1 Install the starter motor.
- 2 Connect the starter motor wiring.



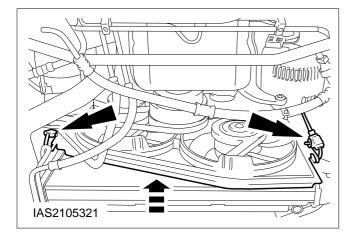
17. Fit the CKP sensor and the multi-groove belt of the alternator/power steering pump.

- Fit the CKP sensor and connect the plug.
- Take the pressure off the belt by turning the tensioning pulley clockwise.
- Fit the multi-groove belt.



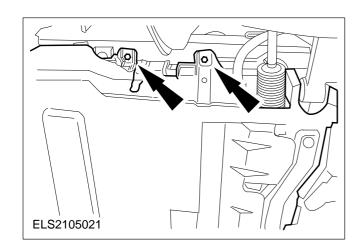
18. Fit the air conditioning multi-groove belt.

- Take the pressure off the belt by turning the tensioning pulley clockwise.
- Fit the multi-groove belt.



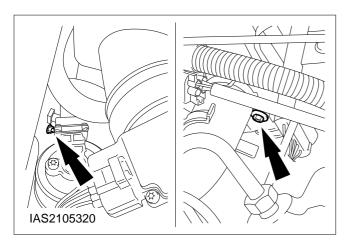
19. Fit the radiator fan shroud (continued).

- Hook the radiator fan shroud into the retaining tabs.
- Connect the fan motor plug and attach the wiring to the radiator fan shroud.



20. Fit the engine cover.

Lower the vehicle.



21. Fit the radiator fan shroud.

22. Standard finishing operations:

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