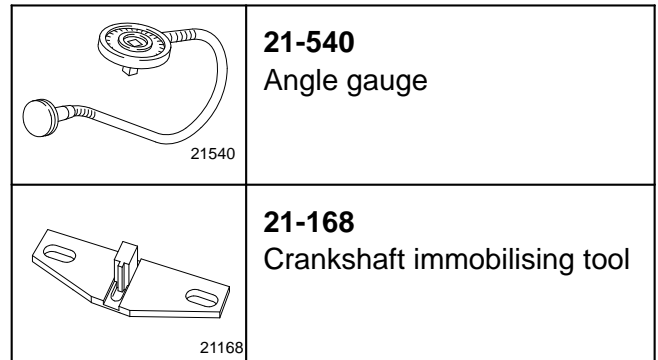
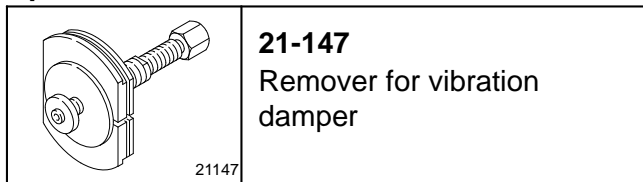
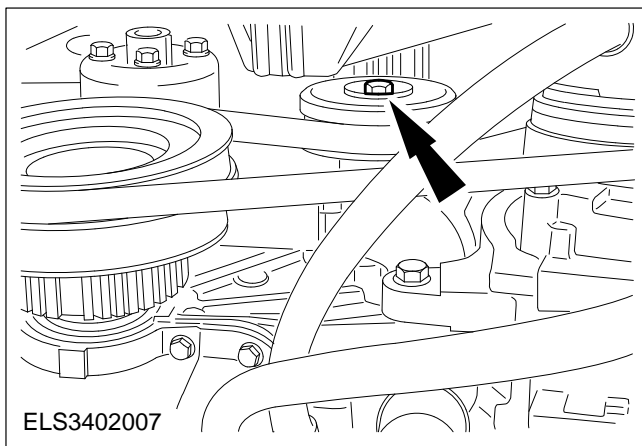


Seal – Crankshaft Front – Renew (21 467 0)**Special Tools****Remove**

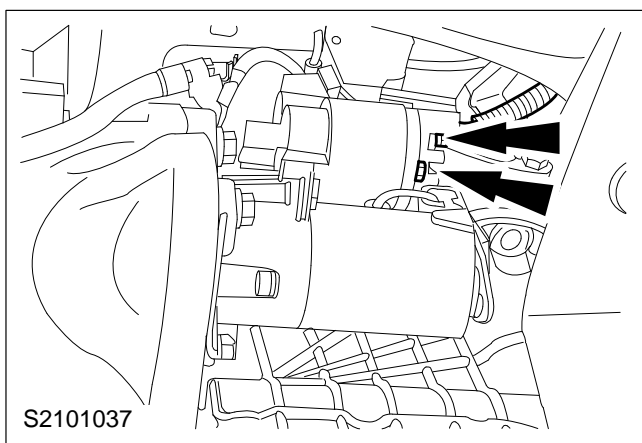
⚠ CAUTION: Disconnect the battery earth lead.

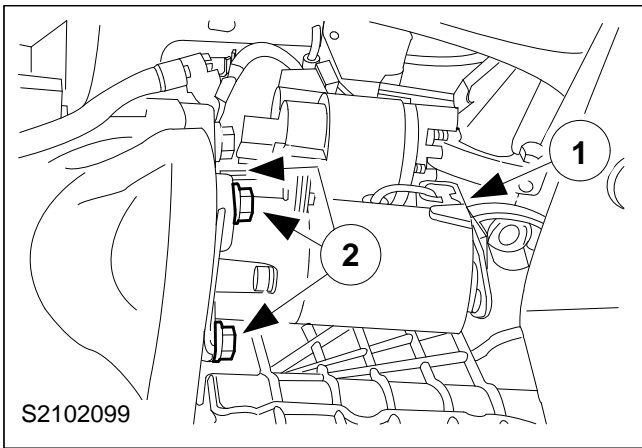
1. Standard preparatory operations

- Make a note of the radio keycode.
- Make a note of the preset radio stations.
- Detach the battery cover.

2. Release the tensioning pulley and remove the multi-groove belt.**3. Remove the starter motor.**

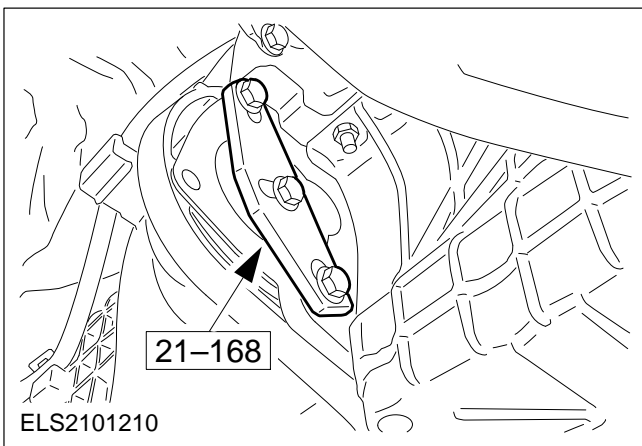
Disconnect the wiring from the solenoid.



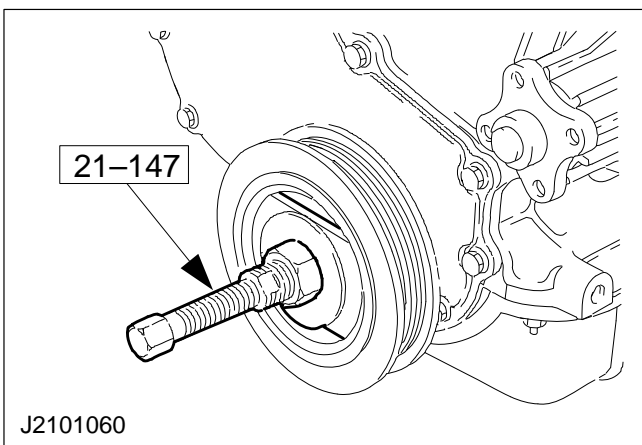


4. Remove the starter motor (continued).

- 1 Detach the starter motor bracket from the engine block.
- 2 Unscrew the bolts.

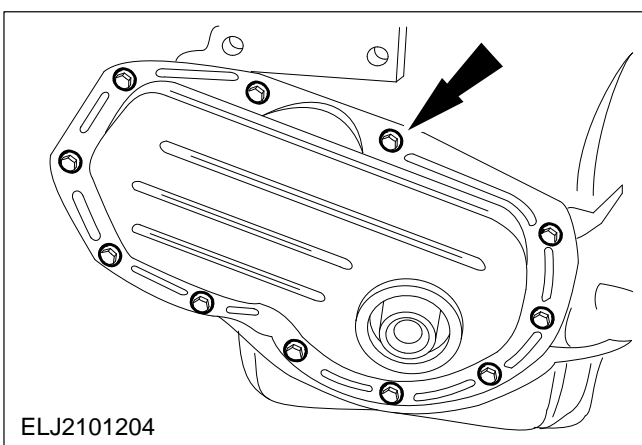


5. Fit the locking tool.

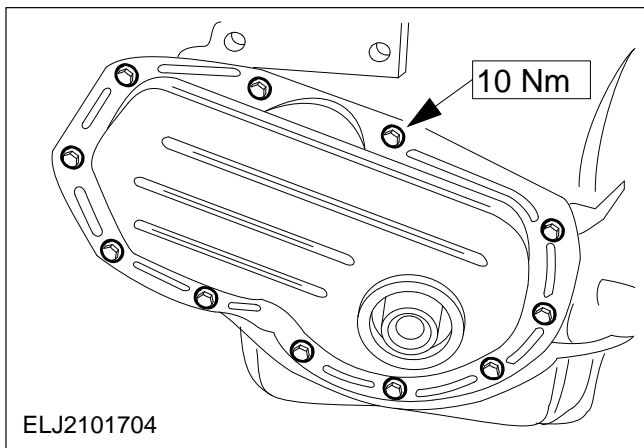


6. Detach the crankshaft belt pulley/vibration damper.

- Unscrew and remove the pulley bolt.
- Fit the special tool and pull out the pulley.



7. Remove the lower timing chain cover.

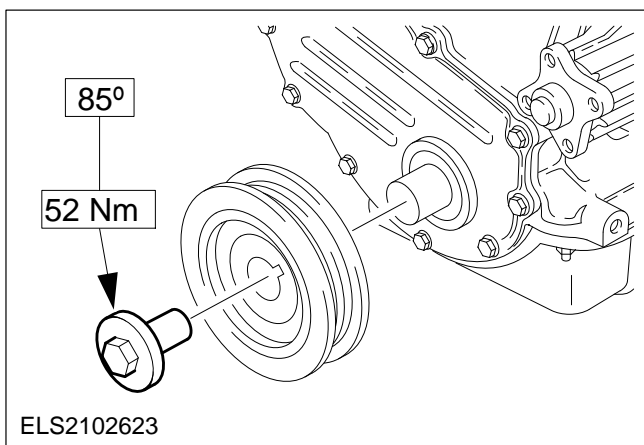


Install

NOTE: The radial oil seal is integrated into the cover.

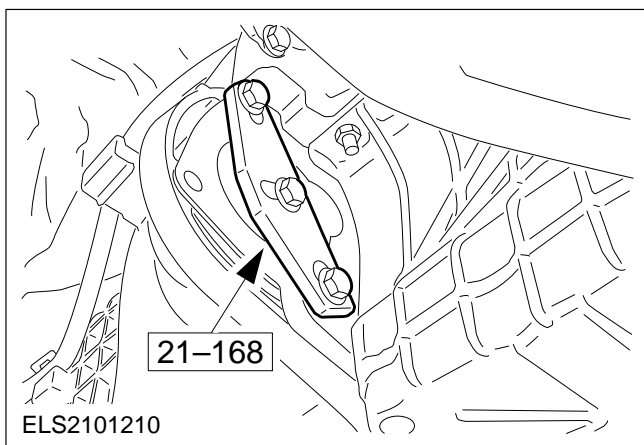
NOTE: Do not remove the centring cap until the bolts have been tightened.

8. Fit a new lower timing chain cover.

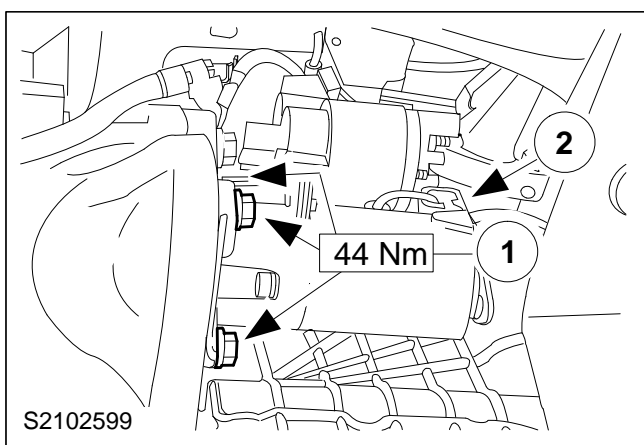


CAUTION: The tightening torque must be strictly adhered to. Use Special Tool 21-540.

9. Fit the crankshaft pulley/vibration damper.



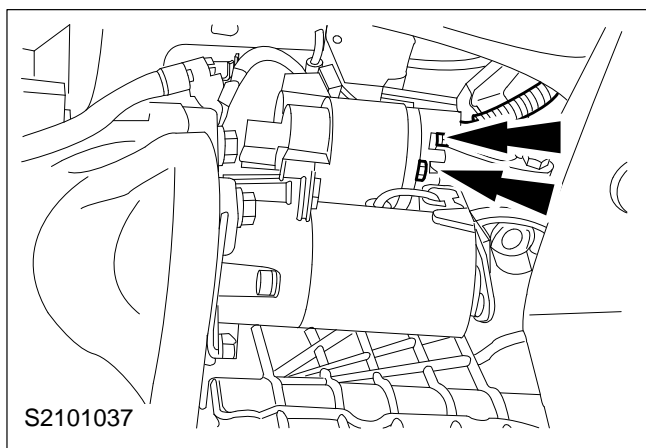
10. Remove the immobilising tool.



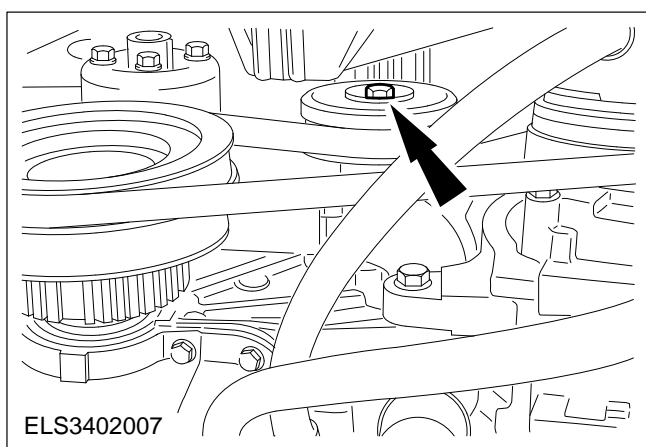
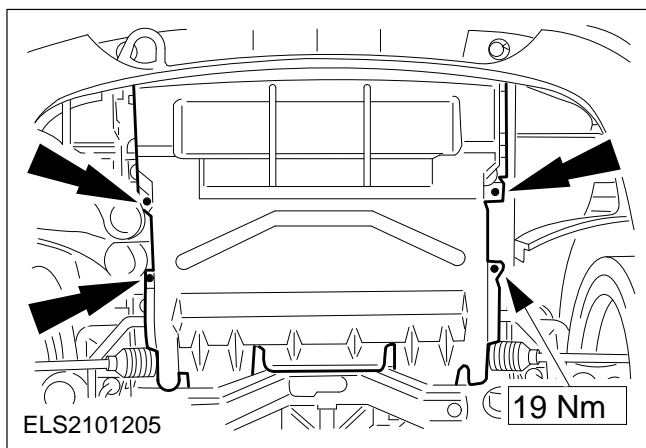
11. Install the starter motor.

1 Tighten the three bolts.

2 Fit the starter motor bracket to the cylinder block.

**12. Fit the starter motor (continued).**

Attach the wire to the solenoid.

**13. Release the tensioning pulley and lay the multi-groove belt in place.****14. Attach the engine undershield.****15. Lower the vehicle.**

16. Standard finishing operations.

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