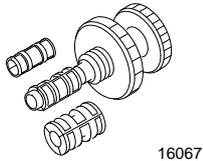
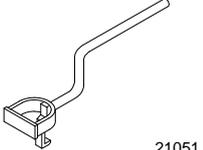
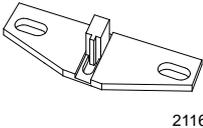
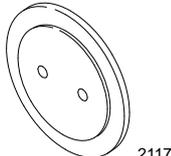
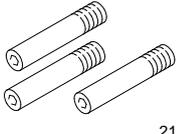
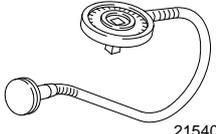


**Seal – Crankshaft Rear – Renew (21 468 4)**

(engine or transmission removed)

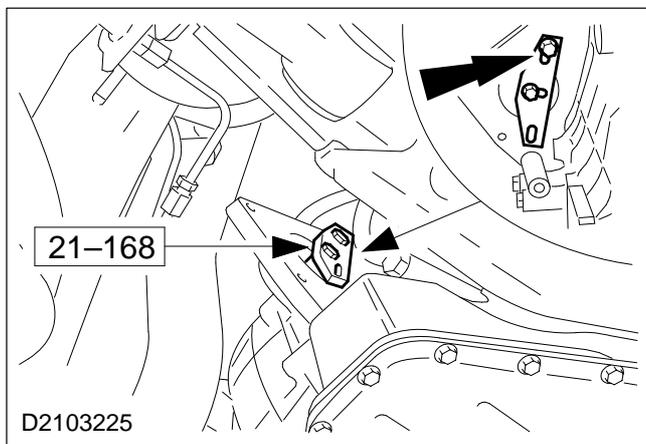
**Special Tools**

 16067	<b>16-067</b> Locator for clutch disc
 21051	<b>21-051</b> Oil seal remover
 21168	<b>21-168</b> Crankshaft immobilising tool
 21176	<b>21-176</b> Installer, radial oil seal

 21177	<b>21-177</b> Flywheel locating studs
 21540	<b>21-540</b> Bolt tightening angle gauge

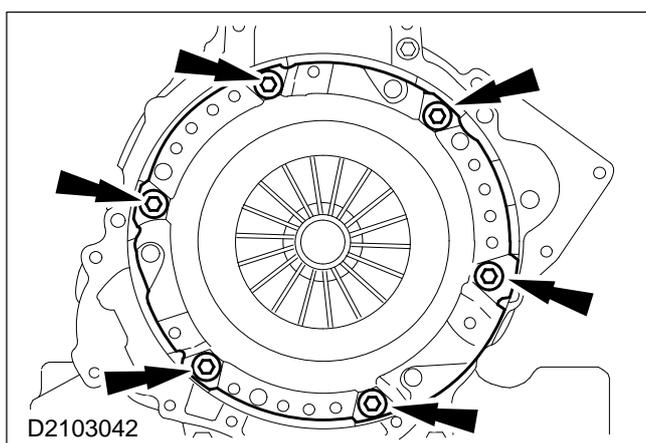
**Materials**

Description	
Engine Oil	SAE 15W40
Lubricant	ESD-M1C220-A

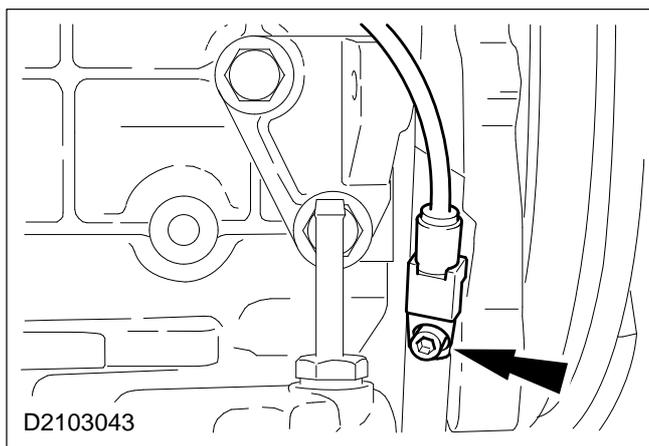
**Remove**

- 1. Lock the crankshaft using the special tool.**

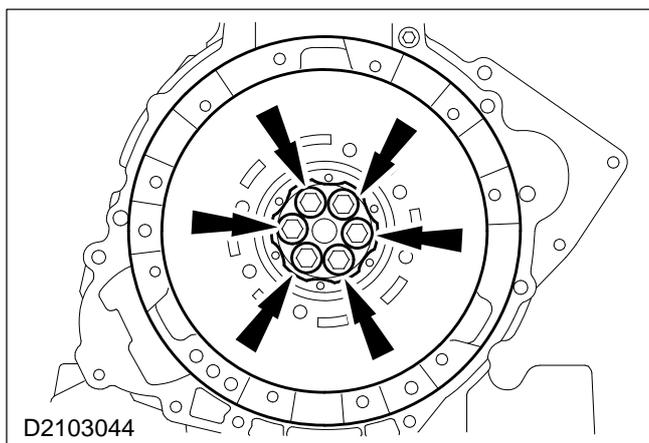
Attach the special tool at the transmission flange using a bolt.



- 2. Remove the clutch.**

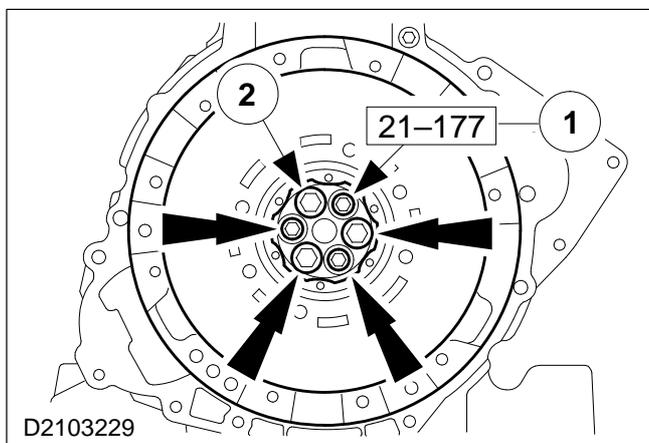


**3. Remove the crankshaft position (CKP) sensor.**



**NOTE:** Only unscrew three bolts.

**4. Undo the flywheel bolts.**

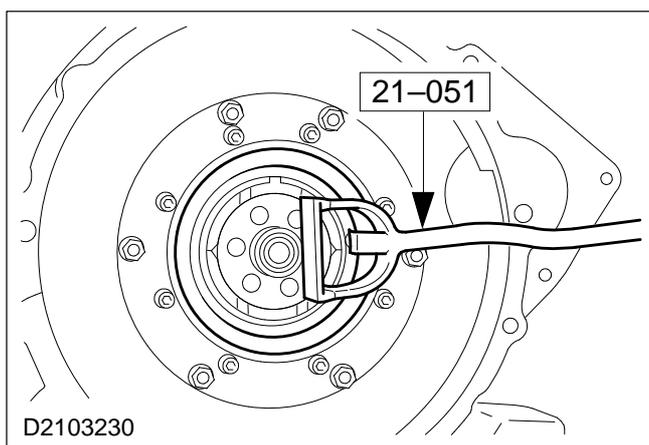


**5. Remove the flywheel.**

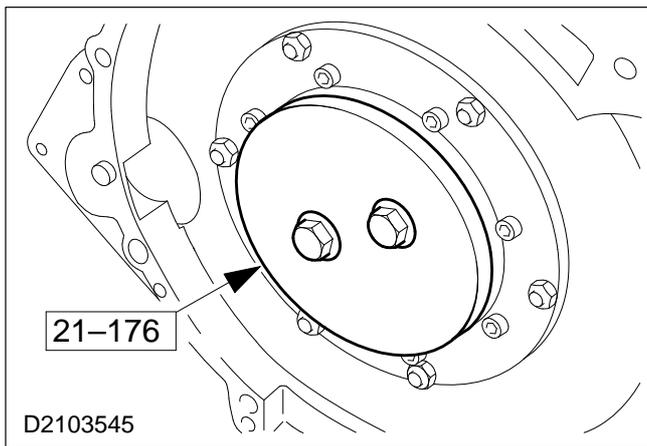
1 Screw in the guide studs.

2 Remove the three bolts.

- Take off the flywheel over the guide studs.
- Take out the guide studs.



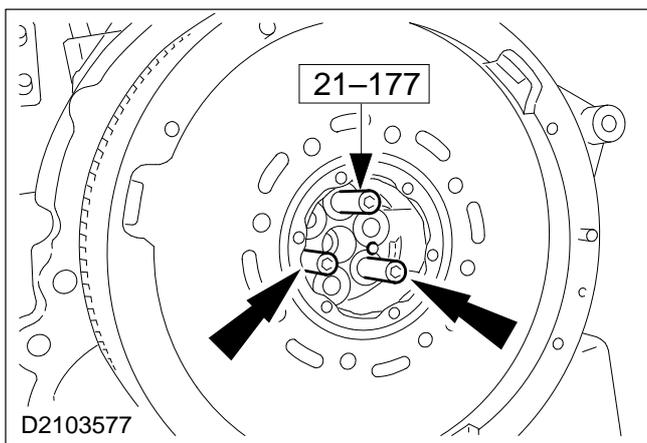
**6. Remove crankshaft rear oil seal**



## Install

**NOTE:** Apply engine oil SAE 15W40 to the outer edge of the oil seal. The sealing lip must remain dry.

7. Pull the oil seal in evenly using the special tool and two flywheel bolts.

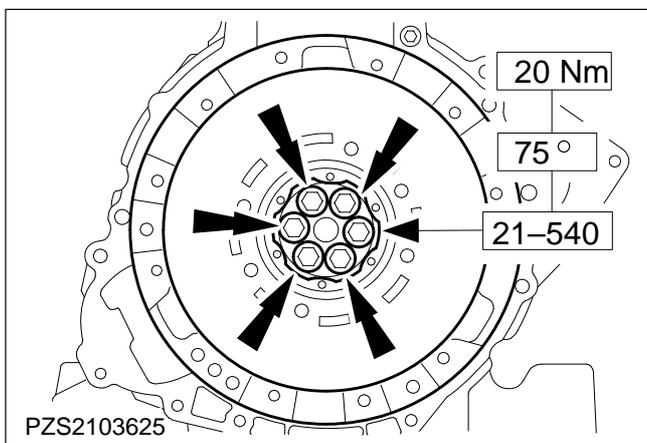


## 8. Install the flywheel.

- Apply lubricant (ESD-M1C220-A) to the thrust washers and lay them in the oil seal/main bearing housing with the lubricating groove facing outwards.
- Screw in the guide studs.

**NOTE:** The locating sleeve and hole must line up.

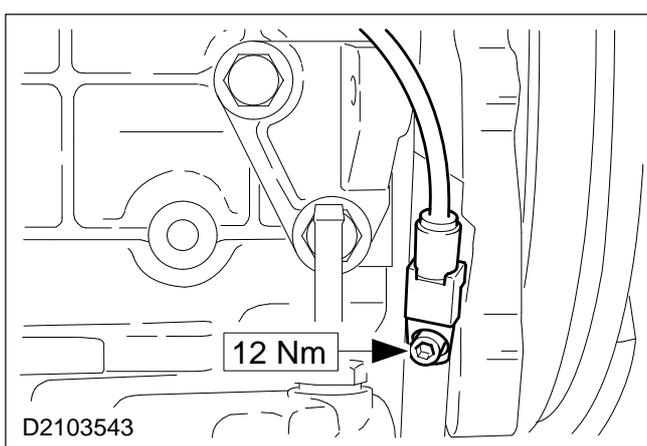
- Fit the flywheel in place using a new O-ring.
- Take out the guide studs.



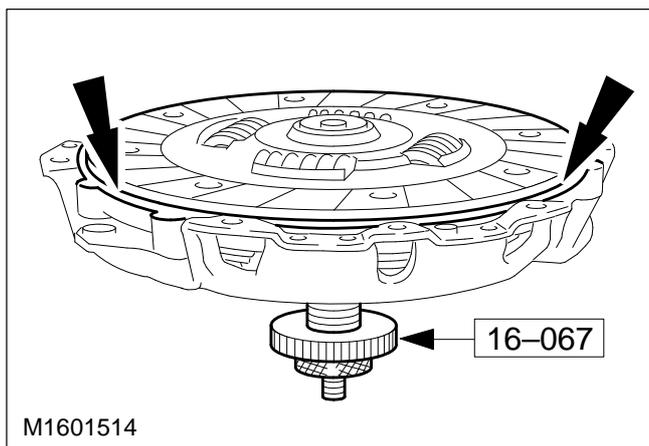
**NOTE:** The crankshaft is immobilised.

## 9. Tighten the flywheel bolts.

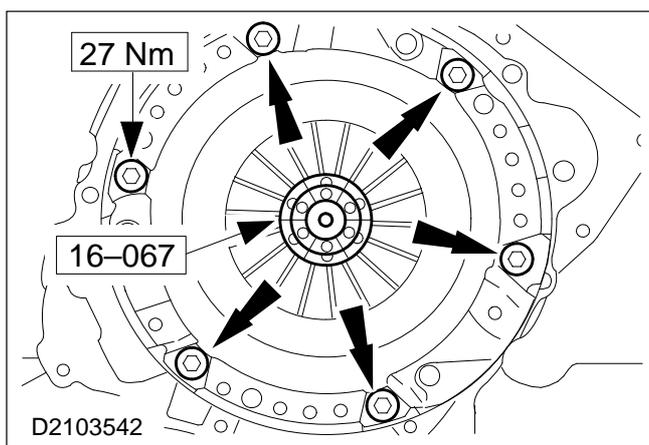
- Coat the bolts with engine oil SAE 15W40 and screw them in working diagonally.
- Tighten the bolts in two stages working diagonally.



## 10. Fit the CKP sensor with a new O-ring.

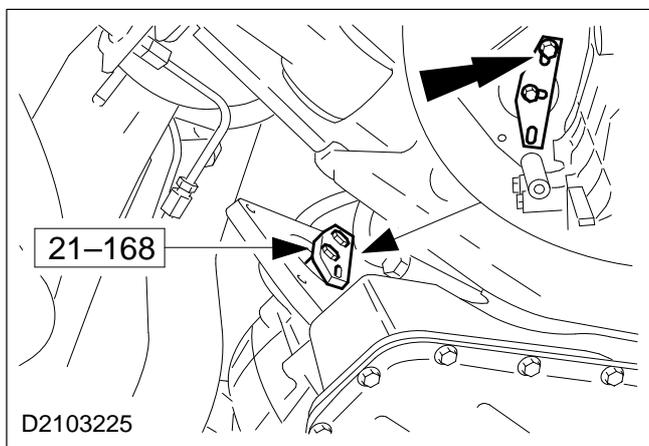


**11. Centre the clutch disc on the pressure plate.**



**12. Fit the clutch.**

- Fit the clutch pressure plate with the centred clutch disc and tighten the six bolts evenly, working diagonally.
- Remove the centring tool.



**13. Remove the locking tool.**