## ENGINES 272, 273 in MODEL 211, 219
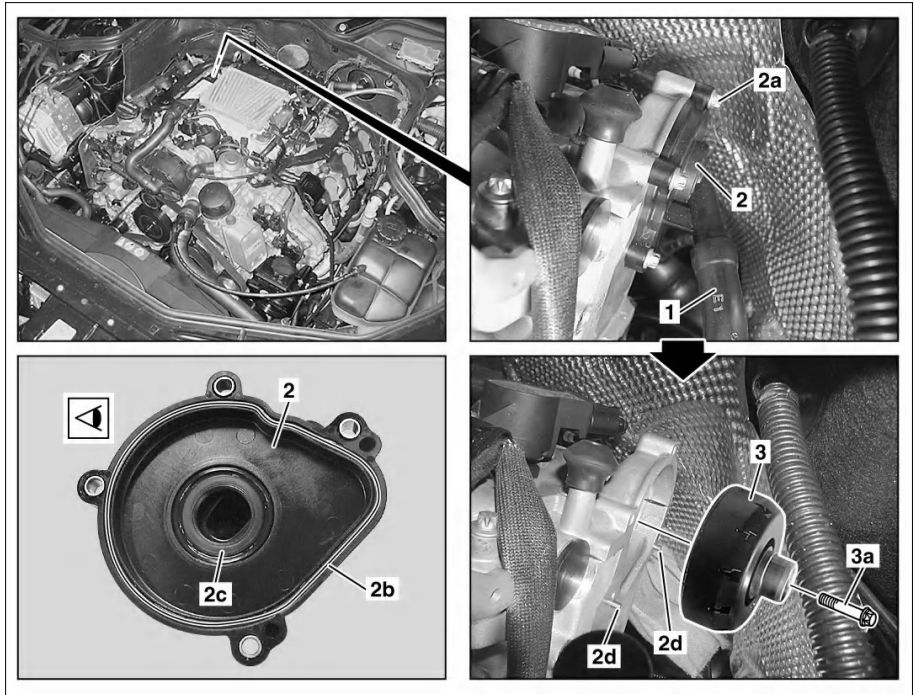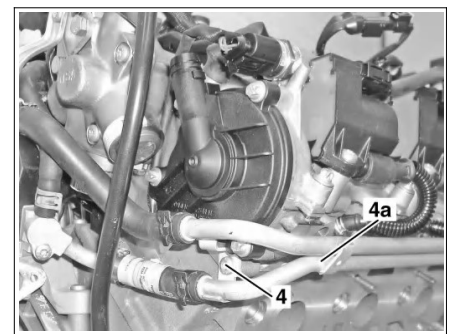
1   Crankcase ventilation hose
2   Centrifuge cover
2a  Screw
2b  Gasket
2c  Radial shaft seal
2d  Dowel pins
3   Centrifuge
3a  Screw



P01.20-2131-06

**Model 219.357**

4   Bracket
4a  Low temperature circuit coolant line



P01.20-2205-01

## Modification notes

| 25.7.05 | Bolt, centrifuge cover to cylinder head cover | Engine 272 | *BA01.20-P-1001-01L |

| ⛶ ⛶ | | Remove/install | | |
|---|---|---|---|---|
| ⊕ | | Notes on self-locking nuts and bolts | | AH00.00-N-0001-01A |
| 1 | | Remove air filter housing | | AR09.10-P-1150TS |
| 2 | | Detach hose (1) for crankcase ventilation system at centrifuge cover (2) | | |
| 3 | | Remove bracket (4) from low temperature circuit coolant line (4a) | Model 219.357 | |
| 4 | | Remove bolts (2a, 4 pcs) on centrifuge cover (2) | Nm | *BA01.20-P-1001-01L |
| 5 | | Remove the centrifuge cover (2) | ℹ Intercept engine oil that flows out with an absorbent rag.  ◁ **Installation:** Check seal (2b) and radial shaft sealing ring (2c) for wear and damage and replace centrifuge cover (2) if necessary. The fitted pins (2d) determine the installation position of the centrifuge cover (2). | |
| 6 | | Remove bolt (3a) and remove the centrifuge (3) | ℹ Observe loosening direction of bolt (3a) (left-hand thread).  Nm | *BA01.20-P-1002-01L |
| 7 | | Install in the reverse order | | |
| ◁ | | **Checking** | | |

| | | | | |
|---|---|---|---|---|
| ⚠ **Danger!** | **Risk of accident** caused by vehicle starting off by itself when engine is running.**Risk of injury** caused by contusions and burns during starting procedure or when working near the engine as it is running | Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts. | AS00.00-Z-0005-01A |
| 8 | Conduct engine test run and check engine for leaks | | |
| 9 | Check engine oil level, correct if necessary. | | |

Nm **Crankcase ventilation, cylinder head cover**

| Number | Designation | | | Engine 272 | Engine 273 |
|---|---|---|---|---|---|
| BA01.20-P-1001-01L | Bolt, centrifuge cover to cylinder head/cylinder head cover | Stage 1 | Nm | 6 | 6 |
| | | Stage 2 | ∡° | 90 | 90 |
| BA01.20-P-1002-01L | Bolt, centrifuge to camshaft sprocket | Stage 1 | Nm | 6 | 6 |
| | | Stage 2 | ∡° | 90 | 90 |