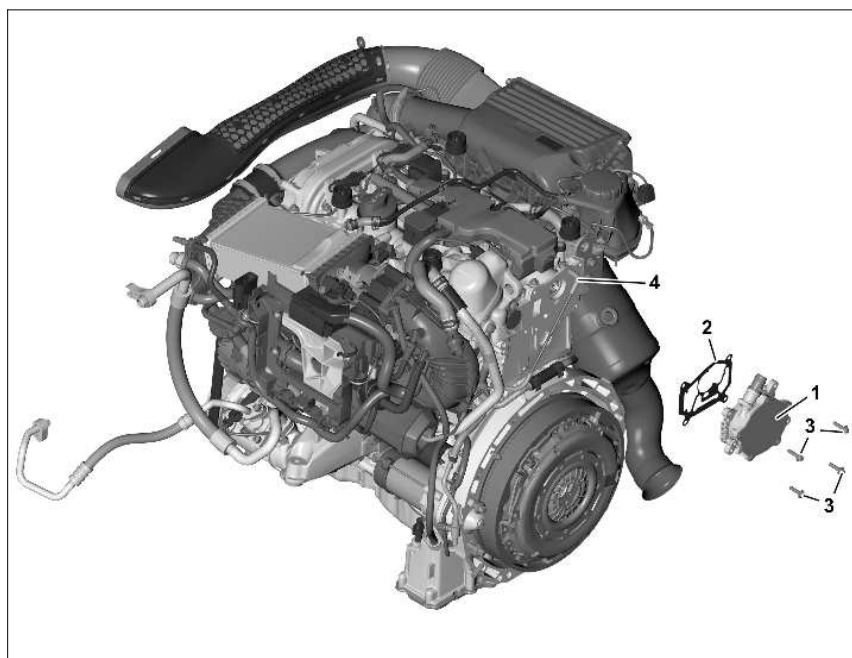


Engine 274.9 in model 213


Engine 274.9 in model 238


- 1 Vacuum pump
- 2 Seal
- 3 Bolts
- 4 Vacuum hose



P43.05-2089-06

Warning	Risk of injury. Moving parts can pinch, crush or, in extreme cases even sever extremities.	No parts of the body or limbs should be within the operating area of mechanical components when moving components.	AS00.00-Z-0009-01A
Warning	Risk of injury. Skin or eye injuries may result when handling hot or glowing objects.	Wear protective gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
Caution	Risk of injury to skin and eyes due to handling of engine oil. Risk of poisoning caused by swallowing engine oil	Wear protective gloves, protective clothing and safety glasses. Do not fill engine oil into beverage containers.	AS18.00-Z-0001-01A
Topical note	Notes on avoiding damage through contamination and foreign objects		AH00.00-P-5000-01A
	Remove/install		
1	Remove upper engine cover	Installation: Install upper engine cover only after checking for leaks.	
2	Remove engine air intake duct upstream of air filter		
3	Remove soundproofing	Engine 274.9 in model 213 except code 920 (Direct petrol injection with stratified charging) Engine 274.9 in model 238 except code 920 (Direct petrol injection with stratified charging)	AR94.30-P-5410MRD
4	Detach vacuum hose (4) from vacuum pump (1)		
5	Detach vacuum line to brake booster from vacuum pump (1)		
6	Unscrew bolts (3) and remove vacuum pump (1)	Installation: install a new seal (2). Observe position of vacuum pump (1) driver. Bolt, vacuum pump to cylinder head/cylinder head cover	*BA43.05-P-1001-01K
	Clean		
7	Clean sealing surfaces	Assembly cleaner	*BR00.45-Z-1028-04A
	Check		
8	Check sealing surfaces for damage	If a problem arises ↓ Replace cylinder head or vacuum pump (1) Remove cylinder head	AR01.30-P-5800MRD

9	Install in the reverse order		
 Warning	Risk of accident from vehicle starting off by itself when engine running. Risk of injury (bruises and burns) resulting from working on the engine while it is being started or when it is running. Perform an engine test run and check engine for proper operation and leak tightness	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
10			
11	Install upper engine cover		

 Vacuum pump

Number	Designation		Models 167, 172, 204, 205, 207, 212, 213, 218, 238, 253 with engine 274
BA43.05-P-1001-01K	Bolt, vacuum pump to cylinder head/cylinder head cover	Nm	9

Repair materials

Number	Designation	Order number
BR00.45-Z-1028-04A	Assembly cleaner	A 000 986 56 01