

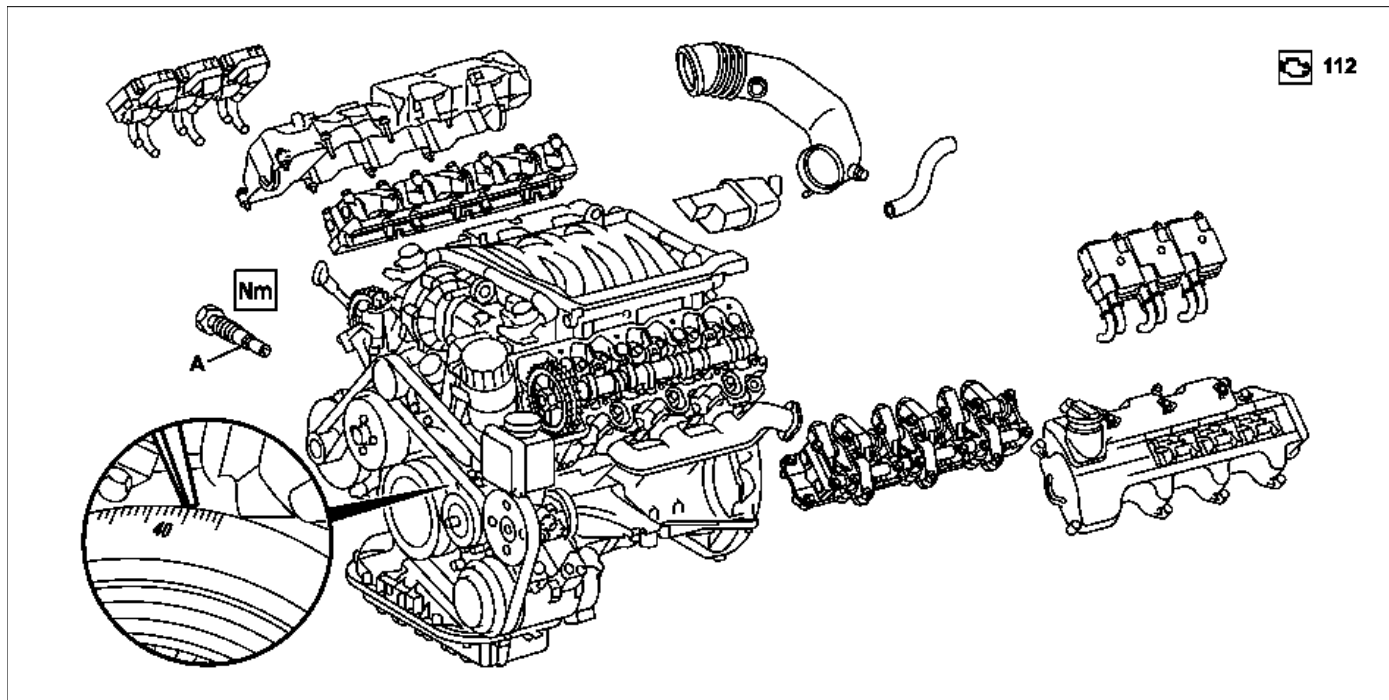
ENGINE 113 (except 113.995) in MODEL 129, 163, 202, 203, 208, 209, 210, 211, 215, 220, 230

ENGINE 112

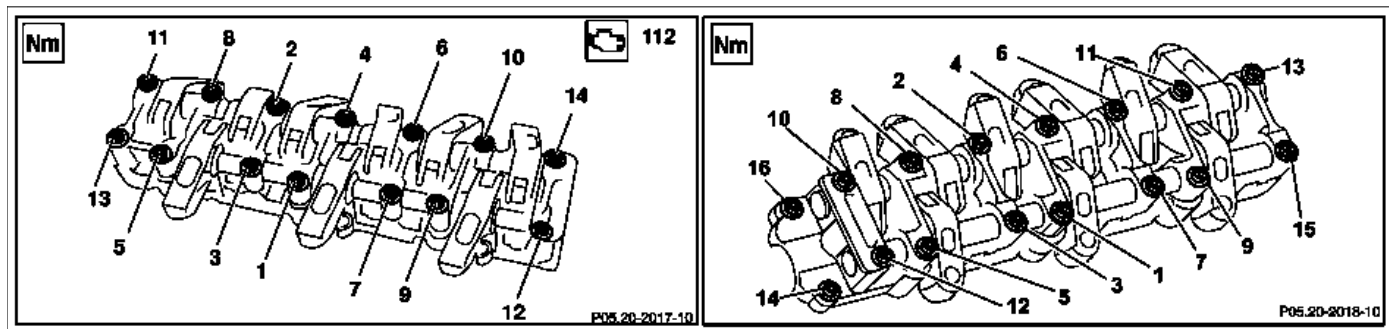
ENGINE 112.945 in MODEL 463.209 /232 /233 /244 /245 /250

ENGINE 113.962 in MODEL 463.206 /240 /241 /247 /248 /249 /254

ENGINE 113.982 in MODEL 463.243 /246



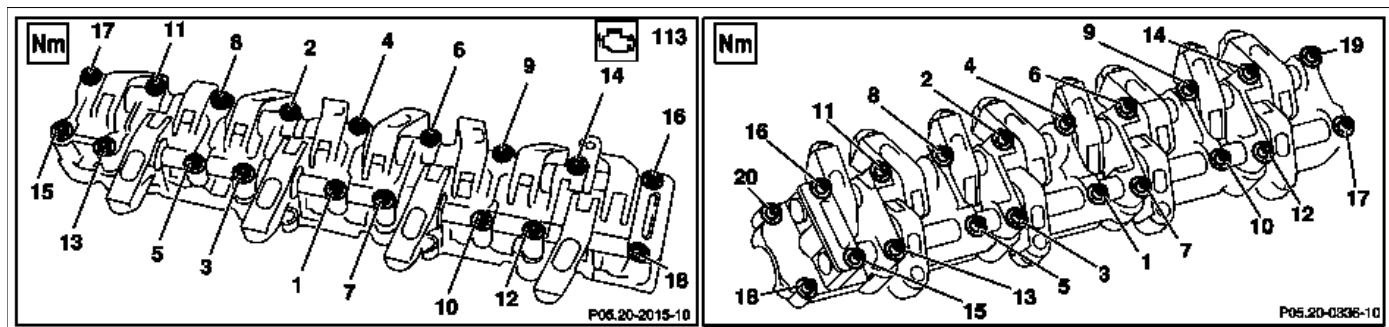
P05.20-0301-09



P05.20-2017-10

P05.20-2018-10

P05.20-2019-07



P05.20-2015-10

P05.20-0306-10

P05.20-2016-07

	Remove/install		
1	Remove cylinder head cover	Air filter located at vehicle side. Air filter located on engine side.	AR01.20-P-5014B AR01.20-P-5014BV AR05.10-P-6858V
2	Position piston of cylinder 1 at 40° after TDC	<i>i</i> Engine must not be cranked backwards. <i>i</i> Rotate engine at crankshaft in direction of rotation until 40° marking on belt pulley/ vibration damper is aligned with marking on timing case cover. Grooves in the camshafts must point towards the "inner V".	

3	Remove chain tensioner (A)	Engine 112 in models 211.080/082/261/265 /280/282, Engine 113 in model 211.083/270/283 Engine 112.945 in model 463.209/232/233 /244/245/250, Engine 112 in models 163, 129, Engine 113.962 in model 463.206/240/241 /247/248/249/254, Engine 113 (except 113.965/981) in models 210, 208, 202, 163, 129, Engine 113.982 in model 463.243/246 Engine 112 in models 170, 202, 203, 208, 209, 210, Engine 113 in models 163.174/175, 209 Engine 112 in models 211.061 /065, 220, 230.467, Engine 113 in models 211.070/076/276, 215.373/374/375, 220.070/073/074/075 /083/084/170/173/174/175/183/184/875, 230.474/475	AR05.10-P-7800C AR05.10-P-7800CA AR05.10-P-7800AM
4	Remove camshaft bearing bridge Information on installing camshaft bearing bridge	ⓘ Tie camshaft sprocket and timing chain together with a cable strap to prevent the timing chain from skipping. Slacken bolts in stages in the opposite sequence to the torquing pattern. (See diagram) Engine 112 /113 except cylinder shutoff code 479 Installation: Bolt, camshaft bearing bridge to cylinder head, engine 112, 113 except 113.969 Nm Nm	AH05.20-P-2000-01AV *BA05.20-P-1002-01B *BA05.20-P-1004-01B
5	Install in the reverse order		

Camshaft

Number	Designation				Engine 112 except 112.951/976	Engines 112.951/976
BA05.20-P-1002-01B	Bolt, camshaft bearing bridge to cylinder head	M7×45	Stage 1	Nm	15	8
			Stage 2	4°	-	120
BA05.20-P-1004-01B	Bolt, camshaft bearing bridge to cylinder head	M7×84	Stage 1	Nm	10	8
			Stage 2	4°	90	120

Camshaft

Number	Designation	Engines 113.940/941/942/943/944/948/961/962/963/964/965/966/967/968/969/971/980/981/982/984/986/992/995

BA05.20-P-1002-01B	Bolt, camshaft bearing bridge to cylinder head	M7×45	Stage 1	Nm	15
			Stage 2	⌵°	-
BA05.20-P-1004-01B	Bolt, camshaft bearing bridge to cylinder head	M7×84	Stage 1	Nm	10
			Stage 2	⌵°	90

Camshaft

Number	Designation				Engine 113.987/988/ 990/993	Engine 113.991
BA05.20-P-1002-01B	Bolt, camshaft bearing bridge to cylinder head	M7×45	Stage 1	Nm	8	8
			Stage 2	⌵°	120	120
BA05.20-P-1004-01B	Bolt, camshaft bearing bridge to cylinder head	M7×84	Stage 1	Nm	8	8
			Stage 2	⌵°	120	120