

Engines 364, 366, 366 A, 366 LA

Group	Designation	Nm
01	Plug of oil duct to rocker arm shaft	90
	Crankshaft bearing cap to crankcase	1)
	Plug of crankcase oil ducts, front and rear	45
	Plug for oil bore in crankcase	100
	Plug for engine maintenance counter connection	60
	Dipstick guide tube to crankcase	25
	Oil drain plug to oil sump	80
	Sheet metal oil sump to crankcase, hexagon bolt	10
	hexagon nut	15
	Guide tube screw union to oil filler connection	40
	Plug of fettling holes in cylinder head M24 × 1.5	70 to 150
	M30 × 1.5	100 to 200
	Cylinder head to crankcase	8)
	Cylinder head cover to cylinder head	25
	Screw plug for coolant drain to crankcase	55
	Timing case to crankcase	60
	End cover to timing case 8.8	10
	10.9	12
	Cylinder cover to crankcase	25
	Oil spray nozzle to crankcase with valve	25
	without valve	15
	Screw plug for oil spray nozzle hole (6-cylinder)	10
	Oil return plug to oil sump	70
	Oil return connection to oil sump threaded union	70
03	Counterweight to crankshaft	3)
	Flywheel to crankshaft	9)
	Belt pulley/vibration damper to crankshaft	
	Stretch bolt	500 to 600
	Rolled shank	800 to 900
	Engine p.t.o. at front	800 to 900
	Vibration damper with ring tensioning elements to crankshaft	7)
05	Conrod bearing cap to conrod	4)
	Thrust plate to crankcase	35
	Injection timing device to camshaft	300
	Ball pin to rocker arm	40
	Rocker arm shaft to rocker arm bracket	5
	Rocker arm shaft complete to cylinder head	100

Footnotes see pages 20 to 23.

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Group	Designation	Nm
07	Injection pump gear to injection pump M14×1.5	80
	M18×1.5	105
	Injection pump to bracket	45
	Injection pipe screw connection to cylinder head M16×1.5	10
	M22×1.5	10
	Injection pump bracket to timing case	35
	Compressed air cylinder to bracket	15
	Compressed air cylinder retaining pin to bracket	20
	Pressure pipe to injection pump	25
	Pressure pipe to nozzle holder	25
	Leak oil pipe to nozzle holder	20
	Nozzle holder protective sleeve to cylinder head	50
	Thrust bolt for nozzle holder to cylinder head	70
	Nozzle in nozzle holder	80
	Start pilot spray nozzle to intake manifold	20
	Fuel pipe to filter and injection pump	35
	Fuel pipe to injection pump suction chamber	35
	Vent pipe with pressure relief valve to injection pump	35
	Vent pipe to fuel filter	35
	Fuel filter bowl to fuel filter bracket	20
09	Compressor rear wall to bearing housing KKK	10
	Garrett	20
	Compressor housing	15
	Turbine housing	20
	Turbocharger to exhaust manifold	50
	Flange manifold to turbocharger	30
	Charge air pipe clip to turbocharger	5
	Oil pressure pipe to turbocharger	25
	Oil pressure pipe to oil cooler	40
	Oil return pipe to turbocharger	25
	Lock nut to rotor shaft	5)
13	Camshaft-driven compressor	
	Conrod bearing cap to conrod – compressor	15
	Delivery valve to cylinder head – compressor	10
	Suction valve cylinder head – compressor	180
	Compressor to crankcase	35
	Delivery valve	20
	Delivery valve to cylinder head	10

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13	Belt-driven compressor	
	Compressor cylinder head bolt Wabco	6)
	Bearing cap to crankcase Wabco	10
	Compressor cylinder head bolt Knorr	35
	Bearing cap to crankcase Knorr	25
	Valve plate to intermediate plate	12
	Screw plug to cylinder head	130
	Connection fitting for suction pipe	90
	Cylinder liner to crankcase	25
	Screw plug of oil pressure pipe	20
	Oil pressure pipe to compressor	15
	Belt pulley to compressor	100
14	Exhaust manifold to cylinder head	2)
	Exhaust pipe to exhaust manifold	45
	Intake manifold to cylinder head	25
15	Starter to clutch housing	60
	Ball stud to starter intermediate flange	25
	Alternator to bracket M10	40
	M12 x 1.5	60
	Tensioning bolt to crankcase	40
	Tensioning bolt/tensioning strap to alternator	40
	Belt pulley to alternator M14 x 1.5	65
	M16 x 1.5	80
	M24 x 1.5	140
	M27 x 1.5	150
18	Oil pressure relief valve to oil pump cover	20
	Oil pressure relief valve plug – oil filter	70
	Oil pressure pipe to injection pump	15
	Oil pressure to oil filter	15
	Pressure gauge connection to oil filter bracket	35
	Oil pressure gauge sensor to oil cooler	50
	Oil pressure gauge sensor to oil filter	50
	Screw plug to oil filter bracket M10 x 1	20
	Plug of oil galleries to oil filter bracket M18 x 1.5	55
	Connection union to oil filter bracket	55
	Oil pump to crankcase	35
	Cover to oil pump	35
	Intake manifold to oil pump cover	35
	Oil filter support to crankcase	55
	Oil filter bowl to oil filter bracket	45

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Group	Designation	Nm
18	Oil drain plug to oil filter bowl (light alloy)	20
	Oil drain plug to oil filter bowl (steel)	55
	Oil cooler housing to oil filter bracket	30
	Oil cooler to crankcase without circlip,	40
	with circlip	30
	Oil cooler cover to oil cooler	30
	Screw plug for oil cooler cover	45
	Screw plug of oil pressure relief valve to oil cooler	65
	Banjo bolt to oil filter bracket (4-cylinder)	60
	Oil pressure pipe to main oil gallery of crankcase (4-cylinder)	40
20	Coolant pump to crankcase M8	30
	M10	50
	Belt pulley to coolant pump	35
	Thermostat housing to cylinder head	30
	Cover to thermostat housing	30
	Sealing ring holder to coolant pump housing	30
22	Front engine supporting arm to crankcase	170
23	Belt pulley to power steering pump	80
	Belt pulley to power steering pump (Bosch)	80 to 90
	Power steering pump support to cylinder head M8	35
	M10	60
	Tensioning bolt to support/bracket – adjusting thread	50
	Tensioning bolt for Bosch power steering pump to bracket	40
	Refrigerant compressor to bracket	20
	Refrigerant compressor to bearing bracket	40

Footnotes

- ¹⁾ Crankshaft bearing cap to crankcase
12-point bolt
1st stage 45 to 55 Nm
2nd stage 90° to 100° torquing angle
max. shank length 123 mm
- Hexagon bolt
1st stage 80 to 90 Nm
2nd stage 90° to 100° torquing angle
max. shank length 123 mm
- ²⁾ Exhaust manifold to cylinder head
1st stage 60 Nm
2nd stage 90° torquing angle