

V70 (00-08), 2001, B5234T3, AW55-50/51SN, L.H.D



8/1/2014

PRINT

Tightening torque

General tightening torque

Note! Screws coated with a locking fluid or self locking nuts must be replaced with new when reinstalled.

See the table below to find the tightening torques for components not included in the summary.

Nuts and screws which are not self locking can be reused provided that they are in good condition.

Applies to screwed joint with strength class 8.8.	
Thread	Tightening torque (Nm)
M5	5
M6	10
M7	17
M8	24
M10	50
M12	80
M14	130

Summary of specific components and tightening torques

Note! Screws coated with locking fluid or sealant must always be replaced with new screws during reinstallation.

Always use **new screws and nuts** when angle tightening. Any exceptions to this rule will be indicated in the method.

Angle-tightening in tight

spaces. See .

Exhaust system (to the turbocharger (TC))	24 Nm
Cylinder head Tighten the screws in sequence from the center and outwards.	Stage 1.....20 Nm Stage 2.....60 Nm Stage 3.....130°
Manifold (cylinder head side)	25 Nm
Pipe screw (coolant pipe / turbocharger (TC))	26 Nm
Pipe screw (water heated crankcase ventilation.)	26 Nm
Pipe screw (oil pressure line / turbocharger (TC))	26 Nm
Pipe screw (oil pressure line / engine block)	38 Nm
Sub-frame nut (lower torque rod)	Stage 1.....65 Nm Stage 2.....60°
Subframe screws (start on the left-hand side, then the right-hand side)	Stage 1.....105 Nm Stage 2.....120°
Subframe bracket	50 Nm
Intake manifold	19 Nm
Catalytic converter (to the turbocharger (TC)) (to the exhaust system)	25 Nm 24 Nm
Knock sensor (KS)	20 Nm
Piston cooling valve (piston cooling oil duct, in cylinder block)	36 Nm
Timing gear pulley (camshafts without variable valve timing)	20 Nm
Timing gear pulley (camshafts with variable valve timing)	10 Nm
Heated oxygen sensor (HO2S)	45 Nm
Carrier plate	Stage 1.....45 Nm Stage 2.....50°
Intermediate section Tighten the screws in sequence from the center and outwards.	Stage 1 M10.....20 Nm Stage 2 M10.....45 Nm Stage 3 M8.....24 Nm Stage 4 M7.....17 Nm Stage 5 M10.....90°
Torque converter	50 Nm
Engine mounting Right side (M10x35 to cylinder block)	Stage 1.....35 Nm Stage 2.....60°
Engine mounting Right side (M8x23 to cylinder block)	Stage 1.....20 Nm Stage 2.....60°
Right-hand engine pad for the subframe (Only applies to XC90)	Stage 1.....120 Nm Stage 2.....40°
Lower torque rod, transmission screw	Stage 1.....35 Nm Stage 2.....40°
Lower torque rod, sub-frame nut	Stage 1.....65 Nm Stage 2.....60°
Oil filter (environmental filter)	25 Nm
Oil trap	15 Nm

Oil pan plug	38 Nm
Oil pump (countersunk Allen, M6x20, holds the pump housing together)	6 Nm
Oil return line (turbocharger (TC))	12 Nm
Oil pan (Applies to B5254T4)	the screws (1, 2, 3 and 4). Tighten to3 Nm the screws (5). Tighten to25 Nm. Then tighten to 48 Nm
Oil pressure switch	27 Nm
Stud (at exhaust port, manifold, turbocharger (TC))	20 Nm
Plug (check hole for gauging valve clearance)	20 Nm
Plug (gauge hole / crankshaft seal)	38 Nm
Belt tensioner (mechanical)	20 Nm
Flywheel	Stage 1.....45 Nm Stage 2.....65°
Vibration damper -2002 (flanged screws x4)	Stage 1.....25 Nm Stage 2.....30°
Vibration damper 2002- /flanged screws x4	Stage 1.....25 Nm Stage 260°
(center nut)	180 Nm
Temperature sensor (coolant)	22 Nm
Timing cover , (front/rear)	12 Nm
Timing cover , (upper)	8 Nm
Turbocharger (TC) (to manifold, without gasket)	25 Nm
Turbocharger (TC) (to manifold, with gasket)	37 Nm
Spark plugs	30 Nm
Connecting rod cap (connecting rod with treated toothed surface between the connecting rod and cap, screw with waist)	Stage 1.....20 Nm Stage 2.....90°
Connecting rod cap (connecting rod with fracture surface between the connecting rod and cap, fully threaded screw)	Stage 1.....30 Nm Stage 2.....90°
Transmission screw (lower torque rod)	Stage 1.....35 Nm Stage 2.....40°
Variable valve timing center screw	120 Nm
Variable valve timing center plug	35 Nm

8/1/2014

PRINT