

Torque Values

Standard			
Item	Torque N·m (kg-m, ft-lb)	Item	Torque N·m (kg-m, ft-lb)
5 mm hex bolt and nut	5 (0.5, 3.5)	5 mm screw	4 (0.4, 3)
6 mm hex bolt and nut	10 (1.0, 7.2)	6 mm screw	9 (0.9, 7)
8 mm hex bolt and nut	22 (2.2, 16)	6mm flange bolt (8 mm head)	10 (1.0, 7.2)
10 mm hex bolt and nut	35 (3.5, 25)	6mm flange bolt (10 mm head) and nut	12 (1.2, 9)
12 mm hex bolt and nut	55 (5.5, 40)	8 mm flange bolt and nut	27 (2.7, 20)
		10 mm flange bolt and nut	40 (4.0, 29)

Torque specifications listed below are for important fasteners. Others should be tightened to standard torque values listed above.

- Notes:
1. Apply sealant to the threads.
 2. Apply a locking agent to the threads.
 3. Apply molybdenum disulfide oil to the threads and flange surface.
 4. Left hand threads.
 5. Stake.
 6. Apply oil to the threads and flange surface.
 7. Apply clean engine oil to the O-ring.
 8. Torque wrench scale reading using a special tool.
 9. Apply grease to the threads and flange surface.
 10. UBS bolt.
 11. U-nut.
 12. ALOC bolt; Replace with a new one.

Engine				
Item	Q'ty	Thread dia. (mm)	Torque N·m (kg-m, ft-lb)	Remarks
Lubrication:				
Oil drain bolt	1	12	35 (3.5, 25)	
Oil filter	1	20	10 (1.0, 7.2)	Note 7
Oil pump driven sprocket bolt	1	6	12 (1.2, 9)	
Oil pipe bolt	2	8	13 (1.3, 9)	
Oil pipe bolt	2	10	22 (2.2, 16)	
Oil chamber cover bolt	2	10	12 (1.2, 9)	Note 2
Sealing bolt	6	20	30 (3.0, 22)	Note 1
Air separator cover bolt	1	9	28 (2.8, 20)	
Oil pressure switch	1	PT 1/8	12 (1.2, 9)	Note 1
Cylinder Head/Cylinder:				
Cam sprocket bolt	4	7	19 (1.9, 14)	Note 2, 10
Cylinder head cap nut	12	9	2 (2.8, 20)	Note 3
Camshaft holder bolt	20	6	14 (1.4, 10)	
Cylinder head cover bolt	8	6	10 (1.0, 7.2)	
Head cover breather plate bolt	3	5	6 (0.6, 4.3)	Note 2
Cam chain tensioner mounting bolt	4	6	12 (1.2, 9)	
Spark plug	4	12	15 (1.5, 11)	
De-foaming chamber cover bolt	4	6	12 (1.2, 9)	Note 2
Clutch/Gearshift Linkage				
Change cover cap	1	24	8 (0.8, 5.8)	
Clutch center lock nut	1	22	110 (11.0, 80)	Note 5
Shift drum stopper arm bolt	1	6	12 (1.2, 9)	
Shift return spring pin bolt	1	8	23 (2.3, 17)	
Gearshift spindle joint bolt	1	6	14 (1.4, 10)	
Gearshift pedal mounting bolt	1	8	27 (2.7, 20)	