

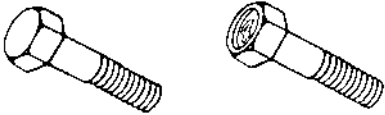
TIGHTENING TORQUE

Tightening Torque – Important Fasteners

ITEM		THREAD DIAMETER	TIGHTENING TORQUE		
			N · m	kg-m	lb-ft
Cylinder head cover bolt		6 mm	11	1.1	8.0
Cylinder head bolt		8 mm	23	2.3	16.5
		10 mm	70	7.0	50.5
Crankcase bolt		8 mm	25	2.5	18.0
		10 mm	56	5.6	40.5
Conrod cap nut		8 mm	40	4.0	29.0
Camshaft housing bolt		6 mm	11	1.1	8.0
Camshaft timing sprocket bolt		10 mm	78	7.8	56.5
Timing chain guide bolt		6 mm	10	1.0	7.0
Intake manifold bolt/nut		8 mm	23	2.3	16.5
Oil pressure switch		—	13	1.3	9.5
Fuel delivery pipe nut		8 mm	23	2.3	16.5
Fuel delivery pipe plug/union bolt	Upper	12 mm	35	3.5	25.5
	Lower	12 mm	35	3.5	25.5
Fuel return pipe bolt		8 mm	23	2.3	16.5
Low pressure fuel pump bolt		6 mm	10	1.0	7.0
Thermostat cover bolt		6 mm	10	1.0	7.0
Flywheel bolt		16 mm	245	24.5	177.0
Starter motor mounting bolt		8 mm	23	2.3	16.5
		10 mm	50	5.0	36.0
Oil filter stand		—	40	4.0	29.0
Engine oil filter		—	14	1.4	10.0
Engine oil drain plug		12 mm	13	1.3	9.5
Power unit mounting bolt		8 mm	23	2.3	16.5
		10 mm	50	5.0	36.0
Driveshaft housing bolt		10 mm	50	5.0	36.0
Upper mount nut	Front	12 mm	85	8.5	61.5
	Rear	12 mm	80	8.0	58.0
Upper mount cover bolt		10 mm	50	5.0	36.0
Lower mount bolt/nut		12 mm	60	6.0	43.0
Clamp bracket shaft nut		22 mm	43	4.3	31.0
Water pump case bolt		8 mm	20	2.0	14.5
Gearcase bolt		10 mm	54	5.5	40.0
Propeller shaft bearing housing bolt		8 mm	20	2.0	14.5
Pinion nut		14 mm	120	12.0	87.0
Propeller nut		18 mm	55	5.5	40.0

Tightening torque – general bolt**NOTE:**

These values are only applicable when torque for a general bolt is not listed in the “Important Fasteners” table.

TYPE OF BOLT	THREAD DIAMETER	TIGHTENING TORQUE		
		N · m	kg-m	lb-ft
 (Conventional or “4” marked bolt)	5 mm	2 – 4	0.2 – 0.4	1.5 – 3.0
	6 mm	4 – 7	0.4 – 0.7	3.0 – 5.0
	8 mm	10 – 16	1.0 – 1.6	7.0 – 11.5
	10 mm	22 – 35	2.3 – 3.5	16.0 – 25.5
 (Stainless steel bolt)	5 mm	2 – 4	0.2 – 0.4	1.5 – 3.0
	6 mm	6 – 10	0.6 – 1.0	4.5 – 7.0
	8 mm	15 – 20	1.5 – 2.0	11.0 – 14.5
	10 mm	34 – 41	3.4 – 4.1	24.5 – 29.5
 (7 marked or  marked bolt)	5 mm	3 – 6	0.3 – 0.6	2.0 – 4.5
	6 mm	8 – 12	0.8 – 1.2	6.0 – 8.5
	8 mm	18 – 28	1.8 – 2.8	13.0 – 20.0
	10 mm	40 – 60	4.0 – 6.0	29.0 – 43.5