

TIGHTENING TORQUE

Model G102

Tightening component		Tightening torque		
		ft-lb	kg-m	N-m
Cylinder head x Spark plug		10.8 - 15.9	1.5 - 2.2	14.7 - 21.6
Cylinder head x Cylinder head cover		2.2 - 3.6	0.3 - 0.5	2.9 - 4.9
Cylinder head x Camshaft cap	M10 Bolt	21.0 - 26.8	2.9 - 3.7	28.4 - 36.3
	M8 Bolt	9.4 - 12.3	1.3 - 1.7	12.7 - 16.7
Cylinder head x Cylinder block		43.4 - 49.2	6.0 - 6.8	58.8 - 66.7
Cylinder head x Water temperature sensor		18.1 - 25.3	2.5 - 3.5	24.5 - 34.3
Cylinder head x Water temperature sender gauge		8.7 - 14.5	1.2 - 2.0	11.8 - 19.6
Cylinder head x Distributor		10.8 - 15.9	1.5 - 2.2	14.7 - 21.6
Cylinder head x Exhaust manifold		21.7 - 32.5	3.0 - 4.5	29.4 - 44.1
Cylinder head x Intake manifold		10.8 - 15.9	1.5 - 2.2	14.7 - 21.6
Cylinder block x Water inlet		4.3 - 6.5	0.6 - 0.9	5.9 - 8.8
Cylinder block x Crankshaft main bearing cap		32.5 - 39.8	4.5 - 5.5	44.1 - 53.9
Cylinder block x Oil pump		4.3 - 6.5	0.6 - 0.9	5.9 - 8.8
Cylinder block x Rear oil seal retainer		4.3 - 6.5	0.6 - 0.9	5.9 - 8.8
Cylinder block x Water pump		10.8 - 15.9	1.5 - 2.2	14.7 - 21.6
Cylinder block x Engine right front mounting No.1		21.7 - 32.5	3.0 - 4.5	29.4 - 44.1
Cylinder block x Transmission		36.2 - 50.6	5.0 - 7.0	49.0 - 68.6
Cylinder block x Oil cooler pipe		18.1 - 25.3	2.5 - 3.5	24.5 - 34.3
Surge tank x Intake air temperature sensor		21.7 - 28.9	3.0 - 4.0	29.4 - 39.2
Surge tank x Gas filter		8.7 - 14.5	1.2 - 2.0	11.8 - 19.6
Surge tank x Throttle body		10.8 - 15.9	1.5 - 2.2	14.7 - 21.6
Body x Engine mounting front insulator		28.9 - 39.8	4.0 - 5.5	39.2 - 53.9
Body x Engine mounting front left bracket		28.9 - 39.8	4.0 - 5.5	39.2 - 53.9
Body x Stabilizer bracket		28.9 - 43.4	4.0 - 6.0	39.2 - 58.8
Body x Immediate bearing bracket		21.7 - 32.5	3.0 - 4.5	29.4 - 44.1
Crankshaft x Flywheel		57.9 - 72.0	8.0 - 10.0	78.5 - 98.0
Crankshaft x Drive plate		57.9 - 72.0	8.0 - 10.0	78.5 - 98.0
Crankshaft x Crankshaft timing belt pulley		65.1 - 72.0	9.0 - 10.0	88.3 - 98.0
Intake manifold x Delivery pipe		10.8 - 15.9	1.5 - 2.2	14.7 - 21.6
Intake manifold x Surge tank		10.8 - 15.9	1.5 - 2.2	14.7 - 21.6
Exhaust manifold No.1 x Exhaust manifold No.2		21.7 - 32.5	3.0 - 4.5	29.4 - 44.1
Exhaust manifold No.2 x Exhaust pipe		36.2 - 55.0	5.0 - 7.6	49.0 - 74.5

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TIGHTENING TORQUE

Tightening component		Tightening torque		
		ft-lb	kg-m	N-m
Exhaust manifold stay		25.3 - 36.2	3.5 - 5.0	34.3 - 49.0
Exhaust pipe clamp		14.5 - 21.7	2.0 - 3.0	19.6 - 29.4
Engine mounting front right bracket		28.9 - 39.8	4.0 - 5.5	39.2 - 53.9
Engine mounting right bracket × Engine mounting front right bracket	Bolts	28.9 - 39.8	4.0 - 5.5	39.2 - 53.9
	Nut	10.8 - 16.6	1.5 - 2.3	14.7 - 22.6
Engine mounting lower insulator × Engine mounting front left bracket		28.9 - 39.8	4.0 - 5.5	39.2 - 53.9
Engine mounting rear bracket No.2 × Engine mounting rear bracket No.1		39.8 - 50.6	5.5 - 7.0	53.9 - 68.6
Engine mounting left stay		28.9 - 39.8	4.0 - 5.5	39.2 - 53.9
Water outlet × BVS		18.1 - 25.3	2.5 - 3.5	24.5 - 34.3
Oil pump × Oil cooler		18.1 - 25.3	2.5 - 3.5	24.5 - 34.3
Oil pump × Oil pressure switch		8.7 - 14.5	1.2 - 2.0	11.8 - 19.6
Oil pan × Cylinder block		5.1 - 8.7	0.7 - 1.2	6.9 - 11.8
Oil pan × Drain plug		14.5 - 21.7	2.0 - 3.0	19.6 - 29.4
Oil pump body × Oil pump cover		5.8 - 9.4	0.8 - 1.3	7.8 - 12.7
Oil level gauge guide		2.9 - 5.1	0.4 - 0.7	3.9 - 6.9
Surge tank stay No.1		10.8 - 15.9	1.5 - 2.2	14.7 - 21.6
Surge tank stay No.2		13.7 - 22.4	1.9 - 3.1	18.6 - 30.4
Surge tank stay No.3		14.5 - 21.7	2.0 - 3.0	19.6 - 29.4
Camshaft × Camshaft timing belt pulley		10.8 - 15.9	1.5 - 2.2	14.7 - 21.6
Timing belt cover		1.4 - 2.9	0.2 - 0.4	2.0 - 3.9
Timing belt tensioner		21.7 - 32.5	3.0 - 4.5	29.4 - 44.1
Crankshaft timing belt pulley × Crankshaft pulley		14.5 - 21.7	2.0 - 3.0	19.6 - 29.4
Water pump pulley × Water pump		4.3 - 6.5	0.6 - 0.9	5.9 - 8.8
Water inlet × Thermo control switch		18.1 - 25.3	2.5 - 3.5	24.5 - 34.3
Fuel filter × Fuel hose No.1		25.3 - 32.5	3.5 - 4.5	34.3 - 44.1
Fuel filter × Fuel pipe		25.3 - 31.8	3.5 - 4.4	34.3 - 43.1
Fuel hose No.1 × Delivery pipe		25.3 - 32.5	3.5 - 4.5	34.3 - 44.1
Connecting rod × Connecting rod cap		25.3 - 32.5	3.5 - 4.5	34.3 - 44.1
Clutch cover × Flywheel		10.8 - 15.9	1.5 - 2.2	14.7 - 21.6
Transmission × Starter motor		28.9 - 39.8	4.0 - 5.5	39.2 - 53.9
Lower arm × Lower arm bracket		57.9 - 75.9	8.0 - 10.5	78.5 - 103
Lower arm × Stabilizer bar		54.2 - 80.0	7.5 - 11.0	73.5 - 108
Intake manifold × EGR valve		4.3 - 6.5	0.6 - 0.9	5.9 - 8.8

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