

TORQUE SPECIFICATION

Part Tightened		N-m	kgf·cm	ft·lbf
Generator x Engine	Bolt A	19	189	14
	Bolt B	54	550	40
Vane pump x Engine		44	449	33
Engine under cover LH x body		5.0	51	44 in.·lbf
Engine under cover RH x body		5.0	51	44 in.·lbf
Camshaft bearing cap No.2 x Cylinder head sub-assy		13	129	9.4
Camshaft bearing cap No.1 x Cylinder head sub-assy		23	235	17
Camshaft timing gear or sprocket x Camshaft No.2		64	653	47
Screw plug x Oil pump assy		15	153	11
Ignition coil No.1 x Cylinder head cover sub-assy		9.0	92	80 in.·lbf
No.1 engine hanger x Cylinder head sub-assy		40	408	30
Engine oil pressure switch assy x Cylinder block sub-assy		15	150	11
Knock sensor x Cylinder block sub-assy		44	450	33
Engine coolant temperature sensor x Cylinder head sub-assy		20	204	15
Oil level gage guide x Cylinder block sub-assy		9.0	92	80 in.·lbf
Water by-pass pipe No.1 x Cylinder head & block		9.0	92	80 in.·lbf
Exhaust manifold x Cylinder head sub-assy		27	275	20
Exhaust manifold heat insulator No.1 x Exhaust manifold		8.0	82	71 in.·lbf
Manifold support bracket x Cylinder block sub-assy		37	377	27
Booster vacuum tube x Cylinder head sub-assy		9.0	92	80 in.·lbf
Engine mounting insulator LH x Engine mounting bracket LH		49	500	36
Engine mounting insulator RR x Engine mounting bracket RR		64	653	47
Engine mounting insulator RH x Body	Bolt A	45	459	33
	Bolt B	52	530	38
	Nut	52	530	38
	Bolt C	9.8	100	7.2
Front suspension crossmember sub-assy x Body	Bolt A	116	1,183	86
	Bolt B	70	714	52
Front suspension arm sub-assy lower No.1 LH x Steering knuckle		98	999	72
Front axle hub LH nut x Front drive shaft		216	2,203	160
Tie rod end sub-assy LH x Steering knuckle		49	500	36
Speed sensor front LH x Steering knuckle		8.0	82	71 in.·lbf
Cylinder head cover No. 2 x Cylinder head cover sub-assy		7.0	71	62 in.·lbf
Cylinder head cover sub-assy x Cylinder head sub-assy		10	102	7.4
Oil pan drain plug x Oil pan No. 2		38	382	28
Cylinder head sub-assy x Cylinder block sub-assy	1st	29	300	22
	2nd	Turn 90°	Turn 90°	Turn 90°
	3rd	Turn 90°	Turn 90°	Turn 90°
Intake manifold x Cylinder head sub-assy		30	306	22
Exhaust pipe assy front x Exhaust manifold		43	438	32
Drive plate & ring gear x Crankshaft		A/T	88	65
Flywheel x Crankshaft	M/T			
	1st	49	500	36
	2nd	Turn90°	Turn90°	Turn90°
Stud bolt x Oil pan No. 1		5.0	51	44 in.·lbf
Oil pan No. 1 x Cylinder block		24	245	18
Oil strainer x Oil pan No. 1		11	112	8.1
Oil pan No. 2 x Oil pan No. 1		9.0	92	80 in.·lbf
Drain plug x Oil pan No. 2		38	382	28
Oil filter union x Oil pan No. 1		30	306	22
Camshaft timing gear assembly x Camshaft		64	653	47

Part Tightened		N·m	kgf·cm	ft·lbf
Cam position sensor × Cylinder head		8.0	82	71 in.·lbf
Chain vibration damper × Cylinder block		9.0	92	80 in.·lbf
Chain tensioner × Cylinder block		9.0	92	80 in.·lbf
Oil pump assy x Cylinder head & block	Bolt A	24	245	18
	Bolt B	11	112	8.1
	Bolt C	11	112	8.1
	Nut D	24	245	18
	Bolt E	24	245	18
Water pump × Oil pump assy		11	112	8.1
Engine mounting bracket RH × Oil pump assy		55	561	41
Water pump pulley × Water pump		15	153	11
Crankshaft damper × Crankshaft		128	1,305	95
Fuel delivery pipe × Cylinder head	Bolt A	19	194	14
	Bolt B	9.0	92	80 in.·lbf
Crankshaft position sensor × Oil pump assy		7.5	76	66 in.·lbf
Water inlet × Cylinder block		9.0	92	80 in.·lbf
Camshaft timing oil control valve × Cylinder head		7.5	76	66 in.·lbf
Spark plug × Cylinder head		18	184	13
Stud bolt × Cylinder head	Bolt A	10	102	7.4
	Bolt B	4.0	41	35 in.·lbf
	Bolt C	10	102	7.4
	Bolt D	9.0	92	80 in.·lbf
Oil control valve filter plug × Cylinder head		30	306	22
Connecting rod cap × Connecting rod	1st	15	153	11
	2nd	Turn 90°	Turn 90°	Turn 90°
Bearing cap × Cylinder block	1st	22	224	16
	2nd	Turn 90°	Turn 90°	Turn 90°
Water drain cock × Cylinder block		35	357	26
Stud bolt × Cylinder block		5.0	51	44 in.·lbf
Chain tensioner slipper x Cylinder block		9.0	92	80 in.·lbf
Ventilation valve x Cylinder head		27	275	20
w/Head taper screw plug No.1 x Cylinder head		44	449	33
Front suspension member reinforcement x Body		47	479	35
Water filler x Radiator		7.5	76	66 in.·lbf