

TORQUE SPECIFICATIONS

Part tightened	N*m	kgf*cm	ft.*lbf
Generator x Engine : for bolt A	18.5	189	14
Generator x Engine : for bolt B	54	550	40
Vane pump x Engine	44	449	33
No. 2 camshaft bearing cap x Cylinder head	13	1339	9
No. 1 camshaft bearing cap x Cylinder head	23	235	17
Camshaft timing sprocket x No. 2 camshaft	64	653	47
Screw plug x Timing chain cover	15	153	11
Cylinder head cover x Cylinder head	10	102	7
Ignition coil x Cylinder head cover	9.0	92	80 in.*lbf
No. 2 cylinder head cover x Cylinder head	7.0	71	62 in.*lbf
No. 1 chain vibration damper x Cylinder block	9.0	92	80 in.*lbf
Chain tensioner slipper x Cylinder block	9.0	92	80 in.*lbf
No. 1 chain tensioner x Cylinder block	9.0	92	80 in.*lbf
Engine mounting insulator RH x Engine and body : for bolt A	45	459	33
Engine mounting insulator RH x Engine and body : for bolt B	52	530	38
Liquid tube x Body	9.8	100	7 in.*lbf
Camshaft timing oil control valve x Cylinder head	7.5	76	66 in.*lbf
Crankshaft pulley x Crankshaft	128	1,305	95
Oil pan drain plug x No. 2 oil pan	37.5	383	28
Stud bolt x Cylinder head : for bolt A	10	102	7.4 in.*lbf
Stud bolt x Cylinder head : for bolt B	4.0	41	35 in.*lbf
Stud bolt x Cylinder head : for bolt C	10	102	7.4
Stud bolt x Cylinder head : for bolt D	9.0	92	80 in.*lbf
Oil control valve filter x Cylinder head	30	306	22
No. 1 taper screw plug x Cylinder head	44	449	33
Cylinder head x Cylinder block	1st: 29 2nd: 90° 3rd: 90°	1st: 300 2nd: 90° 3rd: 90°	1st: 22 2nd: 90° 3rd: 90°
Camshaft timing gear x No. 1 camshaft	64	653	47
Oil dipstick guide x Cylinder head	9.0	92	80 in.*lbf
Intake manifold x Cylinder head	30	306	22
Exhaust manifold support bracket x Cylinder block and exhaust manifold	44	449	32
No. 1 exhaust manifold heat insulator x Exhaust manifold	8.0	82	71 in.*lbf
Front exhaust pipe x Exhaust manifold	43	438	32
Water filler x Body	7.5	76	66 in.*lbf
No. 1 water by-pass pipe x Engine	9.0	92	80 in.*lbf
Engine hanger x Cylinder block	40	408	30
Engine coolant temperature sensor x Cylinder head	20	204	15
Exhaust manifold x Cylinder head	27	275	20
Booster vacuum tube x Cylinder head	9.0	92	80 in.*lbf
Drive plate x Crankshaft	88	900	65

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Part tightened	N*m	kgf*cm	ft.*lbf
Flywheel x Crankshaft	1st: 49 2nd: 90°	1st: 500 2nd: 90°	1st: 36 2nd: 90°
Engine and transaxle assembly x Suspension crossmember	64	653	47
Engine mounting bracket LH x Engine mounting insulator LH	49	500	36
Front suspension crossmember x Body : for bolt A	116	1,183	86
Front suspension crossmember x Body : for bolt B	70	714	52
Front suspension member reinforcement LH x Front suspension crossmember and body	47	479	35
Front suspension member reinforcement RH x Front suspension crossmember and body	47	479	35
Front suspension arm lower LH x Steering knuckle	98	999	72
Tie rod end LH x Steering knuckle	49	500	36
Speed sensor frond LH x Steering knuckle	8.0	82	71
Front axle hub LH nut x Drive shaft	216	2,203	160
Cylinder block water drain cock x Cylinder block	35	357	26
Stud bolt x Cylinder block	5.0	51	44
Crankshaft bearing cap x Cylinder block	1st: 22 2nd: 90°	1st: 224 2nd: 90°	1st: 16 2nd: 90°
Connecting rod cap x Connecting rod	1st: 15 2nd: 90°	1st: 153 2nd: 90°	1st: 11 2nd: 90°
Oil pan x Cylinder block	24	245	18
Oil strainer x Cylinder block	11	112	8.1
No. 2 oil pan x Oil pan	9.0	92	80 in.*lbf
Oil filter union x No. 2 oil pan	30	306	22
Oil filter x Oil filter union	17.5	178	13
Camshaft position sensor x Cylinder head	8.0	82	71 in.*lbf
Timing chain cover x Cylinder head and cylinder block : for bolt A	24	245	18 in.*lbf
Timing chain cover x Cylinder head and cylinder block : for bolt B	11	112	8.1 in.*lbf
Timing chain cover x Cylinder head and cylinder block : for bolt C	11	112	8.1 in.*lbf
Timing chain cover x Cylinder head and cylinder block : for bolt D	24	245	18
Timing chain cover x Cylinder head and cylinder block : for nut E	24	245	18
Water pump x Timing chain cover	11	112	8
Engine mounting bracket RH x Timing chain cover	55	561	41
Water pump pulley x Water pump	15	153	11
Fuel delivery pipe x Cylinder head : for bolt A	19	194	14
Fuel delivery pipe x Cylinder head : for bolt B	9.0	92	80 in.*lbf
Camshaft timing oil control valve x Cylinder block	7.5	76	66 in.*lbf
Ventilation valve x Cylinder head cover	27	275	20
Water inlet x Cylinder block	9.0	92	80 in.*lbf
Spark plug x Cylinder head cover	18	184	13