TORQUE SPECIFICATIONS

Part Tightened		N*m	kgf*cm	ft.*lbf
Ignition coil assembly x Cylinder head cover sub-assembly		10	102	7
No. 1 engine hanger x Cylinder head sub-assembly RH		33	337	24
No. 2 engine hanger x Cylinder head sub-assembly LH		33	337	24
Engine mounting bracket RH x Cylinder block sub-assembly		54	551	40
No. 1 oil level gauge guide x Cylinder head sub-assembly		21	214	15
No. 2 oil level gauge guide x Cylinder block sub-assembly		21	214	15
No. 2 idler pulley sub-assembly x Timing chain cover sub-assembly		43	438	32
V-ribbed belt tensioner assembly x Cylinder block sub-assembly		43	438	32
Intake manifold x Cylinder head sub-assembly		21	214	15
Exhaust manifold sub-assembly RH x Cylinder head sub-assembly RH		21	214	15
Exhaust manifold sub-assembly LH x Cylinder head sub-assembly LH		21	214	15
Drive plate & ring gear sub-assembly x Crankshaft		83	850	61
Air cleaner case sub-assembly x Body		5.0	51	44 in.*lbf
Air cleaner case sub-assembly x Air cleaner bracket		5.0	51	44 in.*lbf
Engine coolant temperature x water by-pass joint RR		20	200	14
Engine assembly with Transaxle x Body	A	85	867	63
	B	32	329	24
No. 2 manifold stay x Exhaust manifold sub-assembly LH		34	347	25
No. 2 manifold stay x Cylinder block sub-assembly		34	347	25
No. 1 air cleaner inlet x Body		5.0	51	44 in.*lbf
No. 2 air cleaner inlet x Body		5.0	51	44 in.*lbf
Battery clamp x Body	Bolt	5.5	56	49 in.*lbf
	Nut	5.5	56	49 in.*lbf
Throttle body bracket x Intake air surge tank assembly		21	214	15
Throttle body bracket x Cylinder head cover sub-assembly RH		21	214	15
No. 1 surge tank stay x Intake air surge tank assembly		21	214	15
No. 1 surge tank stay x Cylinder head cover sub-assembly RH		21	214	15
No. 1 cowl top to cowl brace inner x Body		7.5	76	66 in.*lbf
No. 1 cowl top to cowl brace inner x Front outer cowl top panel sub-assembly		7.5	76	66 in.*lbf
Front outer cowl top panel sub-assembly x Body		7.5	76	66 in.*lbf
Fuel pump resistor x Front outer cowl top panel sub-assembly		7.5	76	66 in.*lbf
Radio setting condenser x Cylinder head cover sub-assembly RH		10	102	7
Radio setting condense x Cylinder head cover sub-assembly LH		10	102	7
Intake air resonator sub-assembly x Body		5.0	51	44 in.*lbf
Air cleaner bracket x Body		7.8	80	69 in.*lbf
No. 1 vacuum switching valve assembly x Cylinder head cover sub-assembly		10	102	7
Engine mounting bracket RR x Cylinder block sub-assembly		64	650	47
Steering intermediate shaft x Steering gear		35	360	26
Stabilizer link x Shock absorber		74	755	55
Tie rod assembly x Steering gear		49	500	36
Front speed sensor x Front axle		8.0	85	71 in.*lbf
Front axle hub nut x Front drive shaft		294	2998	217
Cooler compressor assembly x V-ribbed belt tensioner		25	250	18
Cooler compressor assembly x Discharge hose sub-assembly		5.4	55	48 in.*lbf
Cooler compressor assembly x Suction hose sub-assembly		5.4	55	48 in.*lbf

Part Tightened		N*m	kgf*cm	ft.*lbf
Engine mounting control bracket x No. 1 engine front mounting bracket LH				
	Bolt A	44	450	32
	Bolt B	38	388	28
	Nut	23	235	17
Engine assembly with Transaxle x Front frame assembly	Nut A	87	887	64
	Nut B	95	969	70
Engine assembly with Transaxle x engine mounting insulator RR		78	795	58
Drive shaft bearing bracket x Cylinder block sub-assembly		64	650	47
No. 2 exhaust manifold heat insulator x Exhaust manifold sub-assembly LH		8.5	87	75 in.*lbf
Engine oil pressure switch assembly x Oil pan sub-assembly		21	214	15
No. 2 engine mounting stay RH x Intake manifold		21	214	15
No. 2 timing gear cover x Chain cover sub-assembly		6.0	61	53 in.*lbf
No. 1 engine front mounting bracket LH x Chain cover		54	551	40
Camshaft bearing cap x Camshaft housing	1st	10	102	7
	2nd	16	163	12
Camshaft housing x Cylinder head sub-assembly		28	286	21
Chain tensioner No. 1 x Cylinder head sub-assembly		10	102	7
Chain tensioner No. 2 x Cylinder head sub-assembly		21	214	15
Chain tensioner No. 3 x Cylinder head sub-assembly		21	214	15
Camshaft timing gear assembly x Camshaft		100	1,020	74
Camshaft timing exhaust gear assembly x Camshaft		100	1,020	74
Engine rear oil seal retainer x Cylinder block sub-assembly		10	102	7
Knock control sensor x Cylinder block sub-assembly		20	204	15
Water inlet pipe x Cylinder block sub-assembly		10	102	7
Cylinder head sub-assembly RH x Cylinder block sub-assembly	1st	36	367	27
	2nd	Turn 90°	Turn 90°	Turn 90°
	3nd	Turn 90°	Turn 90°	Turn 90°
Cylinder head sub-assembly LH x Cylinder block sub-assembly				
	Recessed head 1st	36	367	27
	2nd	Turn 90°	Turn 90°	Turn 90°
	3nd	Turn 90°	Turn 90°	Turn 90°
	14 mm (0.55 in.) head	30	306	22
Chain vibration damper No. 1 x Cylinder block sub-assembly		23	230	17
No. 2 Idle gear shaft x Cylinder block sub-assembly		60	612	44
Timing chain cover plate x Timing chain cover sub-assembly		9.1	93	81 in.*lbf
Timing chain cover sub-assembly x Cylinder head and block				
	Areas 1: Bolt	21	214	15
	Areas 2: Bolt	21	214	15
	Areas 3: Bolt and Nut	21	214	15
	Areas 4: Bolt A	43	438	32
	Areas 4: Except Bolt A	21	214	15
Water pump assembly x Timing chain cover sub-assembly		9.1	93	81 in.*lbf
Oil pan baffle plate x Cylinder block sub-assembly		10	102	7
Oil pan stud bolt x Cylinder block and timing chain cover sub-assembly		10	102	7
Oil pan stud bolt x No. 2 oil pan sub-assembly		4.0	41	35 in.*lbf
Oil cooler stud bolt x Oil pan sub-assembly		10	102	7

Part Tightened		N*m	kgf*cm	ft.*lbf
Oil strainer stud bolt x Timing chain cover sub-assembly		4.0	41	35 in.*lbf
Oil strainer sub-assembly x Cylinder block and timing chain cover sub-assembly		10	102	7
Oil pan sub-assembly x Cylinder block and timing chain cover sub-assembly				
	bolt A	10	102	7
	except bolt A	21	214	15
Oil pan sub-assembly No. 2 x Oil pan sub-assembly		10	102	7
Oil pan drain plug x Oil pan sub-assembly No. 2		40	408	30
Crankshaft pulley x Crankshaft		250	2,550	184
Cylinder head cover sub-assembly x Cylinder head sub-assembly RH				
	bolt A	21	214	15
	except bolt A	10	102	7
Cylinder head cover sub-assembly LH x Cylinder head sub-assembly LH				
	bolt A	21	214	15
	except bolt A	10	102	7
Water outlet x Cylinder head sub-assembly	bolt	10	102	7
	nut	10	103	7
Water inlet housing set nut		10	102	7
Stud bolt x Water inlet housing		4.0	41	35 in.*lbf
Water inlet set bolt and nut		10	102	7
Stud bolt x No. 1 oil cooler bracket		10	102	7
Oil cooler pipe x No. 1 oil cooler bracket	bolt	21	214	16
	nut	21	214	16
No. 1 oil cooler bracket w/ Oil cooler pipe x Oil pan sub-assembly and Cylinder block sub-assembly	bolt	21	214	16
	nut	21	214	16
No. 1 oil cooler bracket x Oil cooler assembly		68	693	50
Water by-pass hoses x Clamp		10	102	7
Oil filter cap x Oil pan sub-assembly		25	255	18
Oil filter cap x Drain plug		13	127	9
Camshaft position sensor x Cylinder head cover sub-assembly		10	102	7
Ventilation valve x Cylinder head cover sub-assembly LH		27	275	20
Oil pipe union x Cylinder block sub-assembly		65	663	48
Oil pipe union x Cylinder head cover sub-assembly		65	663	48
Oil pipe x Cylinder head sub-assembly		10	102	7
Crankshaft position sensor x Cylinder block sub-assembly		10	102	7
Camshaft timing oil control valve assembly x Cylinder head cover sub-assembly		10	102	7
Cylinder block water drain cock sub-assembly x Cylinder block sub-assembly		25	255	18
Drain cock sub-assembly x Water inlet housing		30	306	22
Water drain cock plug x Water drain cock sub-assembly		13	130	9
Drain cock plug x Drain cock assembly		13	130	9
Spark plug x Cylinder head sub-assembly		18	184	13
Stud bolt x Cylinder head sub-assembly	For A and B bolts	10	102	7
	For C bolts	4.0	41	35 in.*lbf
No. 1 straight screw plug x Cylinder head sub-assembly		44	449	32
No. 2 straight screw plug x Cylinder head sub-assembly		80	816	59

Part Tightened		N*m	kgf*cm	ft.*lbf
Main bearing cap x Cylinder block sub-assembly	16 pointed head 1st	61	622	45
	2nd	Turn 90°	Turn 90°	Turn 90°
	14 mm head	52	525	38
Connecting rod cap x Connecting rod	1st	25	255	18
	2nd	Turn 90°	Turn 90°	Turn 90°
Stud bolt x Cylinder block sub-assembly	bolt A	10	102	7
	bolt B	17	173	13
Sub-assembly oil nozzle No. 1 x Cylinder block sub-assembly		9.0	92	80 in.*lbf
Camshaft position sensor x Cylinder head cover sub-assembly		10	102	7