TORQUE SPECIFICATIONS

Part Tightened		N*m	kgf*cm	ft.*lbf	
Front suspension member reinforcement RH x Front crossmember		95	969	70	
Front suspension member reinforcement RH x Front suspension crossmember		95	969	70	
Radiator reservoir tank x Br	act	5.0	51	44 in.*lbf	
Engine coolant temperature	sensor x Water outlet	20	204	14	
Engine oil pressure sensor x Oil pan		21	214	15	
No. 1 front engine mounting bracket LH x Timing chain cover		54	551	40	
No. 2 idler pulley x Timing c	hain cover	43	438	32	
No. 2 timing gear cover x Timing chain cover		6.0	61	53 in.*lbf	
V-ribbed belt tensioner x Timing chain cover		43	438	32	
V-ribbed belt tensioner x Cylinder block		43	438	32	
Drive shaft bearing bracket x Cylinder block		64	653	47	
Exhaust manifold LH x Cylinder head		21	214	15	
No. 2 exhaust heat insulator x Exhaust manifold		8.5	87	75 in.*lbf	
No. 2 manifold stay x Exhau	ist manifold	34	347	25	
No. 2 manifold stay x Cylinder block		34	347	25	
No. 1 oil dipstick guide x Cylinder block		21	214	15	
No. 2 oil dipstick guide x Cylinder head		21	214	15	
Exhaust manifold RH x Cylinder head		21	214	15	
Intake manifold x Cylinder head		21	214	15	
No. 2 engine mounting stay RH x Intake manifold		21	214	15	
No. 2 engine mounting stay RH x Timing chain cover		21	214	15	
Ignition coil x Cylinder head cover		10	102	7	
Intake air surge tank x Intake manifold	5 mm hexagon wrench	18	184	13	
	for Bolt	21	214	15	
	for Nut	16	163	12	
Vacuum hose clamp x Intake air surge tank		5.4	55	48 in.*lbf	
Drive plate and ring gear x Crankshaft		178	1,815	132	
Engine mounting bracket RR x Engine mounting insulator RR		95	969	70	
Engine mounting bracket FR x Engine mounting insulator FR		145	1,479	107	
Engine mounting bracket LH x Engine mounting insulator LH		56	571	41	
Engine mounting insulator	for Bolt and nut A	95	969	70	
RH x Front No. 1 engine mounting bracket	for Nut B	52	530	38	
Front crossmember x Body	for Bolt A	96	979	71	
Front suspension member x Body	for Bolt B	145	1,478	107	
Front suspension member	for Bolt C	145	1,478	107	
brace rear x Body	for Bolt D	93	948	69	
Air cleaner case x Engine mounting insulator LH		5.0	51	44 in.*lbf	-
Battery bracket reinforcement x Body		19	194	14	
Front battery bracket x Body		19	194	14	
Front battery bracket x Battery bracket reinforcement		19	194	14	
Battery clamp x Body		5.0	51	44 in.*lbf	

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Part Tightened	1	N*m	kgf*cm	ft.*lbf
Connecting rod x	1st	25	255	18
Connecting cap	2nd	Turn 90°	Turn 90°	Turn 90°
Cylinder block x	1st	61	622	45
Crankshaft bearing cap	2nd	Turn 90°	Turn 90°	Turn 90°
	Main bearing cap bolt	52	530	38
Camshaft timing gear x Inta	ke camshaft	100	1,020	74
Camshaft timing exhaust ge	ear x Exhaust camshaft	100	1,020	74
Stud bolt x Cylinder block		10	102	7
Stud bolt x Cylinder head	for Stud bolt A and B	10	102	7
	for Stud bolt C	4.0	41	35 in.*lbf
No. 1 oil nozzle x Cylinder b	block	9.0	92	80
Cylinder block water drain	1st	25	255	18
cock x Cylinder block	Adjusting position	45 or less	459 or less	33 or less
Water drain cock plug x Wa		13	130	9
Crankshaft position sensor		10	102	7
No. 2 straight screw plug x		80	816	59
		44	449	32
No. 1 straight screw plug x Cylinder head Water inlet pipe x Cylinder block		10	102	7
Cylinder head (for Bank 1)	1st	36	367	27
x Cylinder block				
,	2nd	Turn 90°	Turn 90°	Turn 90°
	3rd	Turn 90°	Turn 90°	Turn 90°
Cylinder head (for Bank2) x Cylinder block	1st	36	367	27
x Cylinder block	2nd	Turn 90°	Turn 90°	Turn 90°
	3rd	Turn 90°	Turn 90°	Turn 90°
_	Except bolt	30	306	22
Camshaft bearing cap x Camshaft housing (for Bank 1)	1st	10	102	7
Camshaft housing x Cylinder head (for Bank 1)		28	286	21
Camshaft bearing cap x Camshaft housing (for Bank 1)	2nd	16	163	12
Camshaft bearing cap x Camshaft housing (for Bank 2)	1st	10	102	7
Camshaft housing x Cylinder head (for Bank 2)		28	286	21
Camshaft bearing cap x Camshaft housing (for Bank 2)	2nd	16	163	12
No. 2 chain tensioner x Camshaft housing (for Bank 1)		21	214	15
No. 3 chain tensioner x Car	nshaft housing (for Bank 2)	21	214	15
No. 1 chain vibration dampe	er x Cylinder block	23	235	17
Idle sprocket x Cylinder blo		60	612	44
No. 1 chain tensioner x Cyli		10	102	7
Engine rear oil seal retainer x Cylinder block		10	102	7
Crankshaft pulley x Crankshaft		250	2,549	184
		10	102	7
Oil pan baffle plate x Cylinder block				
Front No. 1 engine mounting bracket x Timing chain cover		54	551	40

Part Tightened		N*m	kgf*cm	ft.*lbf	
Cylinder head cover x Cylinder head (for Bank 1)	for Bolt A	21	214	15	
	for Except bolt A	10	102	7	
Oil pipe bracket x Cylinder head (for Bank 1)		10	102	7	
Oil pipe union bolt x Cylinder head cover (for Bank 1)		65	663	48	
Oil pipe union bolt x Cylinder head (for Bank 1)		65	663	48	
Cylinder head cover x Cylinder head	for Bolt A	21	214	15	
	for Except bolt A	10	102	7	
No. 1 oil pipe union bolt x Cylinder head cover (for Bank 2)		65	663	48	
No. 1 oil pipe union bolt x Cylinder head (for Bank 2)		65	663	48	
Water outlet x Cylinder head		10	102	7	
Camshaft timing oil control valve x Cylinder head cover		10	102	7	
VVT sensor x Cylinder head cover		10	102	7	
Spark plug x Cylinder head		18	184	13	

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