

TORQUE SPECIFICATIONS

DRIVE BELT

Part Tightened	N*m	kgf*cm	ft.*lbf
Front suspension member reinforcement RH x Front cross member, Front suspension crossmember	96	979	71

VALVE CLEARANCE

Part Tightened	N*m	kgf*cm	ft.*lbf
No. 1 camshaft bearing cap x Cylinder head	29.5	301	22
No. 2 camshaft bearing cap x Cylinder head	29.5	301	22
No. 3 camshaft bearing cap x Cylinder head	9.0	92	80 in.*lbf
No. 1 chain tensioner x Timing chain cover	9.0	92	80 in.*lbf

TIMING CHAIN

Part Tightened	N*m	kgf*cm	ft.*lbf	
Chain tensioner plate x Crankshaft bearing cap	12	122	9	
Oil pump drive shaft sprocket x Oil pump	29.5	301	22	
No. 1 chain vibration damper x Cylinder head, Cylinder block	9.0	92	80 in.*lbf	
Chain tensioner slipper x Cylinder head, Cylinder block	19	194	14	
Timing chain guide x Crankshaft bearing cap	9.0	92	80 in.*lbf	
Timing chain cover x Cylinder head, Cylinder block	Bolt A (Head: 10 mm)	9.0	92	80 in.*lbf
	Bolt B (Head: 12 mm)	25	255	18
	Bolt C (Head: 14 mm)	55	561	41
	Nut	11	112	8
V-ribbed belt tensioner x Timing chain cover	59.5	607	44	
Engine mounting bracket RH x Timing chain cover	55	561	41	
Crankshaft pulley x Crankshaft	180	1,835	133	
Oil pan x Stiffening crankcase	Bolt, Nut	9.0	92	80 in.*lbf
Cylinder head cover x Cylinder head	Bolt A	11	112	8
	Bolt B	14	143	10
	Nut	11	112	8
Engine wire x Cylinder head cover	8.4	86	74 in.*lbf	
Idler pulley bracket x Cylinder block	60	612	44	
Engine mounting insulator FR x Front cross member	95	969	70	
Engine mounting insulator FR	Through bolt x Nut	145	1,479	107
Engine mounting insulator RH x Body	95	969	70	
Engine mounting insulator RH x Engine mounting bracket	Nut A	95	969	70
	Nut B	52	530	38
Radiator reservoir x Radiator support RH, Engine mounting insulator RH	5.0	51	44 in.*lbf	
No. 1 engine cover x Cylinder head	7.0	71	62 in.*lbf	

CYLINDER HEAD

Part Tightened		N*m	kgf*cm	ft.*lbf
Camshaft position sensor x Cylinder head		9.0	92	80 in.*lbf
Oil pressure switch x Cylinder head		13	133	10
Radio setting condenser x Cylinder head		10	102	7
Cylinder head set bolt Cylinder head x Cylinder block	1 st	70	714	52
	2 nd	Turn 90°	Turn 90°	Turn 90°
Camshaft timing gear x Camshaft		54	551	40
No. 2 camshaft timing sprocket x No. 2 camshaft		54	551	40
No. 1 and No. 2 camshaft bearing cap x Cylinder head		29.5	301	22
No. 3 camshaft bearing cap x Cylinder head		9.0	92	80 in.*lbf
Exhaust manifold x Cylinder head		37	377	27
No. 1 exhaust manifold heat insulator x Exhaust manifold		12	122	9
No. 1 and No. 2 manifold stay x Cylinder block, Exhaust manifold		44	449	32
Oil dipstick guide x Cylinder block		9.0	92	80 in.*lbf

ENGINE ASSEMBLY

Part Tightened		N*m	kgf*cm	ft.*lbf
Drive plate x Crankshaft		98	1,000	72
Drive shaft bearing bracket x Cylinder block		64	653	47
No. 1 and No. 2 engine hanger x Cylinder head		38	387	28
Engine mounting insulator LH x Body		95	969	70
Engine mounting insulator LH	Through bolt	56	571	41
Engine mounting insulator RH x Body		95	969	70
Engine mounting insulator RH x Engine mounting bracket	Nut A	95	969	70
	Nut B	52	530	38
Engine mounting insulator RR x Front suspension crossmember	Bolt and Nut	95	969	70
Engine mounting insulator RR x Engine mounting bracket	Though bolt	95	969	70
Engine mounting insulator FR x Front cross member		95	969	70
Engine mounting insulator FR	Though bolt	145	1,479	107
Battery carrier bracket x Body		20	204	15
Battery bracket reinforcement x Battery carrier		20	204	15
Front battery carrier x Battery bracket reinforcement		20	204	15
Air cleaner filter element x Body		5.0	51	44 in.*lbf
Radiator reservoir x Radiator support RH, Engine mounting insulator RH		5.0	51	44 in.*lbf
Battery clamp x Upper Radiator support	For bolt	8.5	87	75 in.*lbf
Battery clamp x Battery clamp bolt	For nut	5.0	51	44 in.*lbf

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ENGINE UNIT

Part Tightened		N*m	kgf*cm	ft.*lbf
Balance shaft housing x Stiffening crankcase	1 st	21.6	220	16
	2 nd	Turn 90°	Turn 90°	Turn 90°
Connecting rod bolt Connecting rod cap x connecting rod	1 st	24.5	250	18
	2 nd	Turn 90°	Turn 90°	Turn 90°
Crankshaft bearing cap set bolt Crankshaft bearing cap x Cylinder block	1 st	40	408	30
	2 nd	Turn 90°	Turn 90°	Turn 90°
Stud bolt x Cylinder block	Bolt A, C and D	5.0	51	44 in.*lbf
	Bolt B	21.5	219	16
No. 1 oil nozzle x Cylinder block		7.0	71	62 in.*lbf
Connecting rod cap x Connecting rod	1 st	24.5	250	18
	2 nd	Turn 90°	Turn 90°	Turn 90°
Stiffening crankcase x Cylinder block		24	245	18
Oil control valve filter x Cylinder block		30	306	22
Cylinder block water drain cock x Cylinder block		25	255	18
Camshaft timing oil control valve x Cylinder head		9.0	92	80 in.*lbf
Oil pan drain plug x Oil pan		40	408	30
Oil filter union x Stiffening crankcase		29.5	301	22
Oil filler cap x Cylinder head cover		3.0	31	26 in.*lbf
Spark plug x Cylinder head		25	254	18
Ventilation valve x Cylinder head cover		19	194	14
No. 3 water by-pass hose x Cylinder head		9.0	92	80 in.*lbf
No. 1 water by-pass pipe x Cylinder head		9.0	92	80 in.*lbf
Idler pulley bracket x Cylinder block		60	612	44
Union bolt	With oil cooler	25	255	18
Oil cooler pipe x Cylinder head		9.0	92	80 in.*lbf

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