

# TORQUE SPECIFICATION

Part Tightened		N-m	kgf·cm	ft·lbf
Cylinder head cover No. 2 x Cylinder head cover sub-assy		7.0	71	62 in.·lbf
Camshaft bearing cap No. 3 x Cylinder head sub-assy		13	133	10
Camshaft bearing cap No. 1 x Cylinder head sub-assy		23	235	17
Camshaft timing gear or sprocket x Camshaft No. 2		54	551	40
Chain tensioner assy No. 1 x Timing chain or belt cover sub-assy		9.0	92	80 in.·lbf
V-ribbed belt tensioner assy x Cylinder head sub-assy		29	296	21
V-ribbed belt tensioner assy x Cylinder block sub-assy		69	704	51
Engine mounting insulator RH x Body		52	530	38
Engine mounting insulator RH x Transverse engine engine mounting bracket		52	530	38
Cylinder head cover sub-assy x Cylinder head sub-assy (See page 14-5)	A	11	112	8
	B	9.0	92	80 in.·lbf
Cylinder head cover sub-assy x Timing chain or belt cover sub-assy		11	112	8
Ignition coil assy x Cylinder head cover sub-assy		9.0	92	80 in.·lbf
Engine wire x Cylinder head cover sub-assy		9.0	92	80 in.·lbf
Engine hanger x Cylinder head sub-assy		38	387	28
Radio setting condenser x Cylinder head sub-assy		10	102	7
Engine coolant temperature sensor x Cylinder head sub-assy		20	204	15
Exhaust manifold x Cylinder head sub-assy		37	377	27
Exhaust manifold heat insulator No. 1 x Exhaust manifold		18	184	13
Manifold stay x Exhaust manifold		49	500	36
Manifold stay x Cylinder block sub-assy		49	500	36
Knock sensor x Cylinder block sub-assy		20	204	15
Crankshaft position sensor x Timing chain or belt cover		9.0	92	80 in.·lbf
Camshaft position sensor x Cylinder head sub-assy		9.0	92	80 in.·lbf
Water inlet x Cylinder block sub-assy		11	112	8
Water by-pass pipe No. 1 x Cylinder block sub-assy		9.0	92	80 in.·lbf
Water by-pass pipe No. 1 x Cylinder head sub-assy		9.0	92	80 in.·lbf
Oil level gage guide x Water by-pass pipe No. 1		13	133	10
Intake manifold x Cylinder head sub-assy		30	306	22
Flywheel sub-assy x Crankshaft (see page 14-27)	1st	49	500	36
	2nd	Turn 90°	Turn 90°	Turn 90°
Drive plate & ring gear sub-assy x Crankshaft		88	897	65
Transverse engine engine mounting bracket rear x Transverse engine engine mounting insulator rear				
	TMMC, NUMMI made TAKAOKA, TAL made	65 87	663 887	48 64
Transverse engine engine mounting bracket front x Transverse engine engine mounting insulator front		52	530	38
Transverse engine engine mounting bracket LH x Transverse engine engine mounting insulator LH		80	816	59
Transverse engine engine mounting bracket RH x Transverse engine engine mounting insulator RH		52	530	38
Front suspension crossmember sub-assy x Body (See page 14-27)	Front	113	1,152	83
	Rear	157	1,601	116
Engine mounting member sub-assy center x Body		39	398	29
Floor panel brace front x Body		30	306	22
Return tube sub-assy x Body (See page 14-27)	Bolt A	5.0	51	44 in.·lbf
	Bolt B	7.8	80	69 in.·lbf
Cruise control actuator x Cruise control bracket		6.0	61	53 in.·lbf
Air cleaner case x Body		7.0	71	62 in.·lbf
Air cleaner case x Transverse engine engine mounting bracket LH		7.0	71	62 in.·lbf

## SERVICE SPECIFICATIONS – ENGINE MECHANICAL

Part Tightened		N·m	kgf·cm	ft·lbf
Battery carrier x Body		13	133	10
Battery clamp sub-assy x Body		5.0	51	44 in.·lbf
Battery clamp sub-assy x Battery clamp bolt		3.5	36	31 in.·lbf
Radiator support upper x Body		19	194	14
Front wheel RH & LH x Front axle hub sub-assy RH & LH		103	1,050	76
Oil strainer sub-assy x Crankshaft bearing cap sub-assy		9.0	92	80 in.·lbf
Oil pan sub-assy x Crankshaft bearing cap sub-assy		9.0	92	80 in.·lbf
Oil pan drain plug x Oil pan sub-assy		37	377	27
Oil filter union x Crankshaft bearing cap sub-assy		30	306	22
Cylinder head sub-assy x Cylinder block sub-assy (See page 14-45)	1st	49	500	36
	2nd	Turn 90°	Turn 90°	Turn 90°
Camshaft timing gear assy x Camshaft		54	551	40
Oil control valve filter x Cylinder head sub-assy		30	306	22
Camshaft timing oil control valve assy x Cylinder head sub-assy		9.0	92	80 in.·lbf
Oil pump assy x Cylinder block sub-assy		9.0	92	80 in.·lbf
Chain vibration damper No. 1 x Cylinder head sub-assy		9.0	92	80 in.·lbf
Chain vibration damper No. 1 x Cylinder block sub-assy		9.0	92	80 in.·lbf
Chain tensioner slipper x Cylinder block sub-assy		19	189	14
Stud bolt x Timing chain cover sub-assy		5.0	51	44 in.·lbf
Timing chain or belt cover sub-assy x Cylinder head sub-assy		13	133	10
Timing chain or belt cover sub-assy x Cylinder block sub-assy (See page 14-45)	A	13	133	10
	B	19	189	14
Crankshaft pulley x Crankshaft		138	1,407	102
Water pump assy x Timing chain cover sub-assy (See page 14-45)	A	9.0	92	80 in.·lbf
	B	11	112	8
Transverse engine engine mounting bracket x Timing chain or belt cover sub-assy		47	479	35
Spark plug x Cylinder head sub-assy		25	255	18
Ventilation valve sub-assy x Cylinder head cover sub-assy		30	306	22
Stud bolt x Cylinder head sub-assy (See page 14-134)	A, D and E	9.5	97	84 in.·lbf
	B and C	5.0	51	44 in.·lbf
W/ Head taper screw plug No. 2 x Cylinder head sub-assy		44	449	33
Connecting rod cap x Connecting rod (See page 14-147)	1st	20	204	15
	2nd	Turn 90°	Turn 90°	Turn 90°
Crankshaft bearing cap sub-assy x Cylinder block sub-assy (See page 14-147)	1st	44	449	33
	2nd	Turn 90°	Turn 90°	Turn 90°
	Others	19	194	14
Stud bolt x Cylinder block sub-assy (See page 14-147)	A, C, D and E	5.0	51	44 in.·lbf
	B	11	112	8
Cylinder block water drain cock sub-assy x Cylinder block sub-assy		25	255	18