03197–02

TORQUE SPECIFICATION

Part Tightened		N·m	kgf·cm	ft·lbf
Camshaft bearing cap x Cylinder head sub–assy	10 mm (0.39 in.) head	9.0	92	80 in.·lbf
	12 mm (0.47 in.) head	24	245	18
Chain tensioner No.1 x Cylinder head sub–assy		9.0	92	80 in.·lbf
Chain tensioner No.2 x Cylinder head sub–assy		19	194	14
Chain tensioner No.3 x Cylinder head sub–assy		19	194	14
Camshaft timing gear assy x Camshaft		100	1,020	74
Camshaft timing gear or sprocket x Camshaft		100	1,020	74
Timing chain cover plate x Timing chain or belt cover sub–assy		9.0	92	80 in.·lbf
Engine hanger No.1 x Cylinder head sub–assy RH		33	336	24
Engine hanger No.2 x Cylinder head sub–assy LH		33	336	24
Engine rear oil seal retainer x Cylinder block sub–assy		9.0	92	80 in.·lbf
Knock sensor x Cylinder block sub–assy		20	204	15
Water outlet pipe No.1 x Cylinder block sub–assy		9.0	92	80 in.·lbf
Cylinder head sub–assy RH x Cylinder block sub–assy	1st	36	367	27
	2nd	Turn 180°	Turn 180°	Turn 180°
Cylinder head sub–assy LH x Cylinder block sub–assy				
	Recessed head 1st	36	367	27
	2nd	Turn 180°	Turn 180°	Turn 180°
	14 mm (0.55 in.) head	30	306	22
Chain vibration damper No.1 x Cylinder block sub–assy		19	194	14
Idle gear No.1 x Cylinder block sub–assy		60	612	44
Timing chain or belt cover sub–assy x Cylinder head and block		23	235	17
Water pump assy x Timing chain or belt cover sub–assy				
	10 mm (0.39 in.) head	9.0	92	80 in.·lbf
	12 mm (0.47 in.) head	23	235	17
Oil pan stud bolt x Oil pan sub–assy		4.0	41	35 in.·lbf
Oil pan sub–assy x Cylinder block and timing chain or belt cover				
	10 mm (0.39 in.) head	9.0	92	80 in.·lbf
	12 mm (0.47 in.) head	19	194	14
Oil strainer sub–assy x Oil pan sub–assy		9.0	92	80 in.·lbf
Oil pan sub–assy No.2 x Oil pan sub–assy		9.0	92	80 in.·lbf
Oil pan drain plug x Oil pan sub–assy No.2		40	408	30
Crankshaft pulley x Crankshaft		250	2,549	184
Cylinder head cover sub–assy x Cylinder head sub–assy RH		9.0	92	80 in.·lbf
Cylinder head cover sub–assy LH x Cylinder head sub–assy LH		9.0	92	80 in.·lbf
Ventilation valve x Cylinder head cover sub–assy LH		27	275	20
Oil control valve filter plug x Cylinder head sub–assy		62	632	46
Crankshaft position sensor x Cylinder block sub–assy		9.0	92	80 in.·lbf
VVT sensor x Timing chain or belt cover sub–assy		8.0	82	71 in.·lbf
Cylinder block water drain cock sub–assy x Cylinder block sub–assy		25	255	18
Oil level gauge guide x Cylinder head sub–assy		9.0	92	80 in.·lbf
Stud bolt x Cylinder head sub–assy and cylinder head LH (See page 14–55)				
	A	4.0	41	35 in.·lbf
	B	9.0	92	80 in.·lbf
Union x Cylinder head sub–assy and cylinder head LH		15	150	11
W/ Head taper screw plug x Cylinder head sub–assy and cylinder head LH		80	816	59
Connecting rod cap x Connecting rod	1st	25	250	18
	2nd	Turn 90°	Turn 90°	Turn 90°
Main bearing cap x Cylinder block sub–assy	12 pointed head 1st	61	622	45
	2nd	Turn 90°	Turn 90°	Turn 90°
	12 mm head	35	357	26

Part Tightened		N·m	kgf·cm	ft·lbf
Stud bolt x Cylinder block sub–assy (See page 14–73)	A	11	112	8.1
	B	4.5	46	40 in.·lbf
	C	4.0	41	35 in.·lbf
Sub–assy oil nozzle No.1 x Cylinder block sub–assy		9.0	92	80 in.·lbf