030O8–03

TORQUE SPECIFICATION

Part tightened	N·m	kgf·cm	ft·lbf
Rear end plate bolt	55	560	41
Oil pump x Cylinder block	28.5	290	21
Sub idler gear shaft x Cylinder block	108	1,100	80
Main idler gear shaft x Cylinder block	172	1,750	127
Camshaft gear x Camshaft	59 + 90°	600 + 90°	44 + 90°
Camshaft idler gear shaft x Cylinder head	108	1,100	80
Cylinder head x Cylinder block (Bolt number position: See page 14–3) M12 bolt No. 1, 2, 8, 9, 10, 15, 16, 17 No. 4, 5, 12, 13 No. 3, 6, 11, 14, 18 M10 bolt No. 19, 20, 21	 59 + 90° + 90° 59 + 90° + 135° 59 + 90° + 180° 59	 600 + 90° + 90° 600 + 90° + 135° 600 + 90° + 180° 600	 44 + 90° + 90° 44 + 90° + 135° 44 + 90° + 180° 44
Camshaft bearing cap x Cylinder head	31	320	23
Valve rocker support x Cylinder head	28.5	290	21
Injection nozzle clamp bolt	25	250	18
Injection pipe nut (both end nipples)	39	400	29
Heater plug	25	250	18
Cylinder head cover x Cylinder head	28.5	290	21
Water pump x Cylinder block	28.5	290	21
Thermostat case x Cylinder head	28.5	290	21
Thermostat case x Water pump	55	560	41
Fan clutch (w/ cooling fan) x Water pump	11	110	8
Exhaust manifold x Cylinder head Inner Outer	59 61	600 620	44 45
Intake manifold x Cylinder head	28.5	290	21
Power steering oil pump bolt	47	480	35
Engine mounting nut Front Engine side Chassis side Rear	118 74 74	1,200 750 750	87 55 55
Main bearing cap x Cylinder block 1st 2nd 3rd	69 Loosen 69 + 90° + 45°	700 Loosen 700 + 90° + 45°	51 Loosen 51 + 90° + 45°
Connecting rod cap x Connecting rod	69 + 90° + 45°	700 + 90° + 45°	43 + 90° + 45°
Flywheel x Crankshaft 1st 2nd 3rd	186 Loosen 186	1,900 Loosen 1,900	137 Loosen 137
Oil pan bolt	28.5	290	21
Crankshaft pulley x Crankshaft	108	1,100	80
Drain plug	41	420	30