SS0SK–05

TORQUE SPECIFICATION

Part tightened		N·m	kgf·cm	ft·lbf
Cylinder head cover x Cylinder head		10.5	107	8
Nozzle holder clamp x Cylinder head		21	210	15
Rocker support x Cylinder head		25	255	18
Nozzle leakage pipe x Injection nozzle		11.8	122	9
Nozzle leakage pipe x Cylinder head		14.2	145	10
Fan with fluid coupling assembly x Water pump		18.5	189	14
Timing gear cover x Timing gear case	12 mm head 14 mm head	21 44	214 449	15 32
Crank pulley x Crankshaft		403	4,110	297
Oil dipstick and guide x Intake manifold, Cylinder block, Oil pan		18	184	13
Camshaft thrust plate x Cylinder block		18.5	189	14
Camgear x Camshaft		57	582	42
Oil pipe No.1 idle gear shaft x Timing gear case		11	112	8
Idle gear shaft x Cylinder block		47.5	484	35
Injection pump x Injection pump drive gear		137	1,400	101
Turbo charger x Exhaust manifold		52	530	38
Oil inlet pipe x Oil filter bracket		13	133	10
Oil outlet pipe x Cylinder block		18.5	189	14
Turbochager stay x Turbochager, Cylinder block		44	449	32
EGR pipe with EGR cooler x Exhaust manifold, EGR valve		19	194	14
Fuel pipe x Injection nozzle, Injection pump		25	255	18
Exhaust manifold x Cylinder head		44.1	449	32
Alternator x Alternator adjusting bar		29	296	21
Alternator adjusting bar x Cylinder head		53	540	39
Cylinder head x Cylinder block	1st 2nd 3rd	49 Turn 90° Turn 90°	500 Turn 90° Turn 90°	36 Turn 90° Turn 90°
Water outlet assembly x Cylinder head		18.5	189	14
Intake manifold x Cylinder head		18.5	189	14
Engine mounting bracket x Cylinder block		44.1	449	32
Intake manifold stay x Intake manifold, Cylinder block		37	378	27
No.2 leakage pipe x Intake manifold		20	200	15
Intake air connector x Intake manifold		21	214	15
Throttle body x Intake air connector		21	214	15
Alternator bracket x Cylinder block		53	540	39
Alternator x Alternator bracket		37.5	382	28
Engine mounting bracket (RH and LH) x Cylinder block		44	449	32
Oil filter bracket x Oil cooler cover		44	449	32
Oil cooler cover x Cylinder block	Bolts Nuts	21 16	214 163	15 12
Crankshaft position sensor x Cylinder block		6	60	53 in.·lbf
Water pump x Cylinder block		25	255	18
Injection pump x Timing gear cose		18.5	189	14
Injection pump stats x Cylinder block		37.5	382	28

Oil nozzle for timing gear x Cylinder block		13	133	10
Timing gear case x Cylinder block	12 mm head Short	18.5	189	14
	Long	44	449	32
	14 mm head	52	530	38
Oil pump outlet pipe x Cylinder block		50	510	37
Oil pump outlet pipe x Timing gear case		18.5	189	14
Oil strainer x Timing gear case		18.5	189	14
Oil lever sensor x Oil pan		6	63	53 in.·lbf
Oil pan x Cylinder block		18.5	189	14
Oil drain plug x Oil pan		35	360	26
Connecting rod cap x Connecting rod	1st	85	867	63
	2nd	Turn 90°	Turn 90°	Turn 90°
Rear oil seal retainer x Cylinder block		18.5	189	14
Valve lifter bolt x Cylinder block	10 mm head	9.4	96	83 in.·lbf
	12 mm head	37.5	382	28
Oil nozzle x Cylinder block		30	306	22
Main bearing cap x Cylinder block		200	2,039	148