031EC–07

TORQUE SPECIFICATION

Part tightened		N·m	kgf·cm	ft·lbf
Engine rear oil seal retainer x Cylinder block		13	133	10
Balanceshaft drive gear x Balanceshaft		36	367	27
Balanceshaft x Cylinder block		13	133	10
Timing gear case x Cylinder block	Bolt	13	130	9.0
	Union bolt	16	160	12
Oil pan sub–assy x Cylinder block		15	148	11
Oil strainer sub–assy x Oil pan sub–assy		8.0	82	71 in.·lbf
Oil pan sub–assy No.2 x Oil pan sub–assy		9.0	92	80 in.·lbf
Timing gear case assy x plug		44	449	33
Supply pump assy x Supply pump stay		21	214	16
Supply pump stay x Cylinder block		21	214	16
Supply pump x Timing gear case assy		21	214	16
Supply pump x Supply gear		64	653	47
Idler gear No.1 x Cylinder block		50	510	37
Timing gear case x Timing gear case assy		13	133	10
Water pump assy x Cylinder block		13	133	10
Cylinder head x Cylinder block	1st	85	867	63
	2nd	Turn 90°	Turn 90°	Turn 90°
	3rd	Turn 90°	Turn 90°	Turn 90°
Camshaft bearing cap x Cylinder head		19	194	14
Timing belt cover x Cylinder head and Timing gear case		10	102	7.0
Camshaft timing pulley x Camshaft		98	1,000	72
Common rail x Cylinder block		38	387	28
Nozzle holder clamp x Cylinder head		22	220	16
Nozzle leakage pipe x Injector assy	Hollow screw	16	163	12
	Union bolt	13	130	9.0
Nozzle leakage pipe assy No.2 x Common rail and Cylinder head	SST	21	214	16
Cylinder head cover x Cylinder head		9.0	92	80 in.·lbf
Cylinder head stud bolt	Stud bolt A, E	5.0	51	44 in.·lbf
	Stud Bolt B	7.0	71	62 in.·lbf
	Stud Bolt C	15	153	11
	Stud Bolt D	26	265	19
Head straight screw plug No.1 x Cylinder head		25	255	18
Cylinder block stud bolt	Stud bolt A, B	7.0	71	62 in.·lbf
	Stud Bolt C	8.0	82	71 in.·lbf
	Stud Bolt D, E	4.0	41	35 in.·lbf
Oil nozzle sub–assy x Cylinder head		26	265	19
Crankshaft bearing cap x Cylinder block	1st	50	510	37
	2nd	Turn 90°	Turn 90°	Turn 90°
	3rd	Turn 90°	Turn 90°	Turn 90°
Connecting rod cap x Connecting rod	1st	35	357	26
	2nd	Turn 90°	Turn 90°	Turn 90°
	3rd	Turn 90°	Turn 90°	Turn 90°