031CD–01

TORQUE SPECIFICATION

14B

Part tightened		N·m	kgf·cm	ft·lbf
Oil pressure switch x Cylinder block		15	150	11
Drain plug x oil pan sub–assy		35	360	26
Oil cooler assy x Oil cooler case		16	163	12
Oil cooler case x Cylinder block sub–assy		21	214	15
Stud bolt x Exhaust manifold		47	480	35
Oil filter bracket sub–assy x Oil cooler cover		44	449	32
Relief valve plug x Oil filter bracket sub–assy		49	500	36
Oil pump body cover x Timing gear case sub–assy		10	105	8
Relief valve plug x Timing gear case sub–assy		49	500	36
Oil pump assy (Timing gear case sub–assy) x Cylinder block sub–assy				
	12 mm head	18.5	189	32
	14 mm head	44	449	32
Oil strainer sub–assy x Cylinder block sub–assy		18.5	189	14
Oil pipe x Cylinder block sub–assy	Union bolt	50	510	37
Oil pipe x Oil pump assy (TIming gear case sub–assy)	Nut	18.5	189	14
Oil pump (TIming gear case) x Injection pump		18.5	189	14
Oil strainer sub–assy x Oil pump (Timing gear case sub–assy)		18.5	189	14
Oil pan sub–assy x Cylinder block sub–assy		18.5	189	14
Camshaft thrust plate x Cylinder block		18.5	189	14
Idler gear thrust plate x Cylinder block sub–assy		47.5	484	35
Oil nozzle for timing gears x Cylinder block		13	132	9.5
Vacuum pump assy x Timing gear case sub–assy		39	400	29
Timing gear cover x Oil pump assy (Timing gear case sub–assy)				
	12 mm head	21	214	15
	14 mm head	44	449	32
Radiator pipe x Timing gear case		18.5	189	14
Crankshaft pulley x Crankshaft		294	3,000	217
Valve lifter set bolt x Cylinder block sub–assy	Bolt A	9.4	96	83 in.·lbf
	Bolt B	37.5	382	28
Valve rocker shaft assy x Cylinder head sub–assy		25	255	18
Cylinder head cover x Cylinder head sub–assy		10.5	107	8
Sub–assy oil nozzle No. 1 x Cylinder block sub–assy		35	360	26

15B–FTE

Part tightened	N·m	kgf·cm	ft·lbf
Oil pressure switch x Cylinder block	15	150	11
Drain plug x oil pan sub–assy	35	360	26
Oil cooler assy x Oil cooler case	16	163	12
Oil cooler case x Cylinder block sub–assy	21	214	15
Stud bolt x Exhaust manifold	47	480	35
Oil filter bracket sub–assy x Oil cooler cover	44	449	32
Relief valve plug x Oil filter bracket sub–assy	49	500	36

Oil pump assy (Timing gear case sub–assy) x Cylinder block sub–assy			
Bolt A	18.5	189	32
Bolt B	44	449	32
Bolt C	44	449	32
Injection pump flange x Oil pump assy (Timing gear case sub–assy)	18.5	189	14
Oil strainer sub–assy x Cylinder block sub–assy	18.5	189	14
Oil pipe x Cylinder block sub–assy Union bolt	50	510	37
Oil pipe x Oil pump assy (TIming gear case sub–assy) Nut	18.5	189	14
Oil pump (TIming gear case) x Injection pump	18.5	189	14
Oil strainer sub–assy x Oil pump (Timing gear case sub–assy)	18.5	189	14
Oil pan sub–assy x Cylinder block sub–assy	18.5	189	14
Idler gear thrust plate x Cylinder block sub–assy	47.5	484	35
Injection pump drive gear x Injection pump assy	137	4,000	101
Oil nozzle for timing gears x Cylinder block	13	132	9.5
Vacuum pump assy x Timing gear case sub–assy	39	400	29
Timing gear cover x Oil pump assy (Timing gear case sub–assy)			
12 mm head	21	214	15
14 mm head	44	449	32
Radiator pipe x Timing gear case	18.5	189	14
Crankshaft pulley x Crankshaft	403	4,110	298
Valve lifter set bolt x Cylinder block sub–assy Bolt A	9.4	96	83 in.·lbf
Bolt B	37.5	382	28
Valve rocker shaft assy x Cylinder head sub–assy	25	255	18
Cylinder head cover x Cylinder head sub–assy	10.5	107	8
Sub–assy oil nozzle No. 1 x Cylinder block sub–assy	30	306	22

S05C–B

Part tightened	N·m	kgf·cm	ft·lbf
Drain plug x oil pan sub–assy	34.3	350	25.3
Plug x Oil cooler assy 1st	29.5	300	21.5
2nd	19.6	200	14.5
Oil filter element x Oil cooler element cover	24.5	250	18
Plug x Oil cooler element cover	29.5	300	21
Oil pressure switch x Oil cooler element cover	24.5	250	18
Oil cooler case x Cylinder block sub–assy	24.5	250	18
Coolant drain cock x Oil cooler element cover 1st	58.8	600	43
2nd	44	450	32

S05C–TA

Part tightened	N·m	kgf·cm	ft·lbf
Drain plug x oil pan sub–assy	34.5	350	25.3
Plug x Oil cooler assy 1st	29.5	300	21.5
2nd	19.6	200	14.5
Oil filter element x Oil cooler element cover	24.5	250	18
Plug x Oil cooler element cover	29.5	300	21
Oil pressure switch x Oil cooler element cover	24.5	250	18
Oil cooler case x Cylinder block sub–assy	24.5	250	18

S05C–TB

Part tightened		N·m	kgf·cm	ft·lbf
Drain plug x oil pan sub–assy		34.5	350	25.3
Plug x Oil cooler assy	1st	29.5	300	21.5
	2nd	19.6	200	14.5
Oil filter element x Oil cooler element cover		24.5	250	18
Plug x Oil cooler element cover		29.5	300	21
Oil pressure switch x Oil cooler element cover		24.5	250	18
Oil cooler case x Cylinder block sub–assy		24.5	250	18

W04D–J

Part tightened	N·m	kgf·cm	ft·lbf
Drain plug x oil pan sub–assy	41	420	30
Plug x Oil cooler assy	29.5	300	21.5
Oil filter element x Oil cooler element cover	24.5	250	18
Plug x Oil cooler element cover	29.5	300	21
Oil pressure switch x Oil cooler element cover	12.3	125	9
Oil cooler case x Cylinder block sub–assy	32.5	330	29