

## Specifications (Cont'd)

Crankshaft (Cont'd)	Main bearing center wall thickness (Reference)	STD	Mark 1	1.979 - 1.983 mm	0.0779 - 0.0781 in.	
					Mark 2	1.983 - 1.987 mm
Crank pin diameter	2L		Mark 3	1.987 - 1.991 mm	0.0782 - 0.0784 in.	
			STD	52.988 - 53.000 mm	2.0861 - 2.0866 in.	
			U/S 0.25	52.745 - 52.755 mm	2.0766 - 2.0770 in.	
			U/S 0.50	52.495 - 52.505 mm	2.0667 - 2.0671 in.	
			3L	STD	54.988 - 54.000 mm	2.1649 - 2.1654 in.
				U/S 0.25	54.745 - 54.755 mm	2.1553 - 2.1557 in.
		U/S 0.50	54.495 - 54.505 mm	2.1455 - 2.1459 in.		
Circle runout			Limit	0.06 mm	0.0024 in.	
Main journal taper and out-of-round			Limit	0.02 mm	0.0008 in.	
Crank pin taper and out-of-round			Limit	0.02 mm	0.0008 in.	

## Torque Specifications

Part tightened	kg-cm	ft-lb	N-m
No.2 idler pulley x Cylinder block	340	25	33
Injection pump drive pulley x Injection pump	650	47	64
Camshaft timing pulley x Camshaft	1,000	72	98
No.1 idler pulley bolt x Cylinder block	12 mm head bolt	195	14
	14 mm head bolt	450	33
Crankshaft pulley x Crankshaft	1,700	123	167
Glow plug x Cylinder head	130	9	13
Glow plug connector x Glow plug	10	8.7	1.0
Camshaft oil seal retainer x Cylinder head	185	13	18
Cylinder head x Cylinder block	1st	800	58
	2nd	90° turns	
	3rd	90° turns	
No.1 Cylinder head cover x Cylinder head	50	43 in.-lb	
RH engine hanger x Cylinder head	380	27	4.9
Exhaust manifold x Cylinder head	530	38	52
Intake manifold x Cylinder head	240	17	24
LH engine hanger x Cylinder head	380	27	37
Water outlet housing x Cylinder head	195	14	19
No.2 timing belt cover x Cylinder head	185	13	18
Main bearing cap x Cylinder head	1,050	76	103
Connecting rod cap x connecting rod	1st	550	40
	2nd	90° turns	54
Rear oil seal retainer x Cylinder head	130	9	13
Rear end plate x Cylinder head	120	9	12
Flywheel (M/T) x Crankshaft	1,250	90	123
Drive plate x Crankshaft	1,000	72	98