ENGINE MECHANICAL

SERVICE DATA

SS0SJ–06

Compression pressure		at 250 rpm STD	3,000 kPa (31.0 kgf/cm^2, 441 psi) or more
		Minimum	1,960 kPa (20.0 kgf/cm^2, 284 psi)
	Difference of pressure between each cylinder		196 kPa (2.0 kgf/cm^2, 28 psi) or less
Idle speed	–		600 – 700 rpm
Maximum speed	–		3,500 – 3,700 rpm
Camshaft	Cam lobe height	STD Intake	43.535 – 43.635 mm (1.7140 – 1.7179 in.)
		Exhaust	44.900 – 45.000 mm (1.7677 – 1.7717 in.)
		Minimum Intake	43.100 mm (1.6968 in.)
		Exhaust	44.470 mm (1.7508 in.)
Cylinder block	Cylinder bore diameter	STD Mark 1	108.000 – 108.010 mm (4.2520 – 4.2524 in.)
		Mark 2	108.010 – 108.020 mm (4.2524 – 2.2528 in.)
		Mark 3	108.020 – 108.030 mm (4.2528 – 4.2531 in.)
		O/S 0.50	108.500 – 108.530 mm (4.2717 – 4.2728 in.)
		O/S 0.75	108.750 – 108.780 mm (4.2815 – 4.2827 in.)
		O/S 1.00	109.000 – 109.030 mm (4.2913 – 4.2925 in.)
		Maximum STD	108.030 mm (4.2531 in.)
		O/S 0.50	108.530 mm (4.2728 in.)
		O/S 0.75	108.780 mm (4.2827 in.)
		O/S 1.00	109.030 mm (4.2925 in.)
Piston and piston ring	Piston diameter	STD Mark 1	107.880 – 107.890 mm (4.2472 – 4.2476 in.)
		Mark 2	107.890 – 107.900 mm (4.2476 – 4.2480 in.)
		Mark 3	107.900 – 107.910 mm (4.2480 – 4.2484 in.)
		O/S 0.50	108.380 – 108.410 mm (4.2669 – 4.2681 in.)
		O/S 0.75	108.630 – 108.660 mm (4.2768 – 4.2779 in.)
		O/S 1.00	108.880 – 108.910 mm (4.2866 – 4.2878 in.)
	Piston oil clearance	STD	0.110 – 0.130 mm (0.0043 – 0.0051 in.)
		Maximum	0.18 mm (0.0071 in.)
	Piston ring groove clearance	No.1	0.070 – 0.110 mm (0.0028 – 0.0043 in.)
		No.2	0.060 – 0.100 mm (0.0024 – 0.0039 in.)
		Oil	0.030 – 0.070 mm (0.0012 – 0.0028 in.)
		Maximum	0.20 mm (0.0079 in.)
	Piston ring end gap	STD No.1	0.35 – 0.45 mm (0.0138 – 0.0177 in.)
		No.2	0.47 – 0.60 mm (0.0185 – 0.0236 in.)
		Oil	0.20 – 0.40 mm (0.0078 – 0.0158 in.)
		Maximum No.1	1.41 mm (0.0555 in.)
		No.2	1.61 mm (0.0634 in.)
		Oil	1.61 mm (0.0634 in.)
Connecting rod	Connecting rod bearing center wall thickness		
	Reference	Yellow	1.980 – 1.985 mm (0.0780 – 0.0781 in.)
		Green	1.986 – 1.990 mm (0.782 – 0.0783 in.)
	Connecting rod bolt tension portion diameter	STD	10.80 – 11.00 mm (0.4252 – 0.4331 in.)
		Minimum	10.50 mm (0.4134 in.)
	Bushing inside diameter		37.009 – 37.019 mm (1.4570 – 1.4574 in.)
	Piston pin diameter		37.000 – 37.008 mm (1.4567 – 1.4570 in.)
	Bushing oil clearance	STD	0.005 – 0.015 mm (0.0002 – 0.0006 in.)
		Maximum	0.05 mm (0.0020 in.)

Crankshaft	Main journal oil clearance	STD No.3	0.059 – 0.099 mm (0.0023 – 0.0039 in.)
		Others	0.029 – 0.069 mm (0.0011 – 0.0027 in.)
		U/S No.3	0.059 – 0.101 mm (0.0023 – 0.0040 in.)
		Others	0.029 – 0.071 mm (0.0011 – 0.0028 in.)
		Maximum No.3	0.15 mm (0.0059 in.)
		Others	0.10 mm (0.0039 in.)
	Main journal diameter	STD No.3	76.950 – 76.970 mm (3.0295 – 3.0303 in.)
		Others	76.980 – 77.000 mm (3.0307 – 3.0315 in.)
		U/S 0.25 No.3	76.700 – 76.720 mm (3.0197 – 3.0205 in.)
		Others	76.730 – 76.750 mm (3.0209 – 3.0216 in.)
		U/S 0.50 No.3	76.450 – 76.470 mm (3.0098 – 3.0106 in.)
		Others	76.480 – 76.500 mm (3.0110 – 3.0118 in.)
		U/S 1.00 No.3	75.950 – 75.970 mm (2.9902 – 2.9909 in.)
		Others	75.980 – 76.000 mm (2.9913 – 2.9921 in.)
	Crank pin diameter	STD	65.980 – 66.000 mm (2.5976 – 2.5984 in.)
		U/S 0.25	65.730 – 65.750 mm (2.5878 – 2.5984 in.)
		U/S 0.50	65.480 – 65.500 mm (2.5779 – 2.5787 in.)
		U/S 1.00	64.980 – 65.000 mm (2.5583 – 2.5591 in.)