ENGINE MECHANICAL

031C8–01

SERVICE DATA

14B

V belt	Deflection Generator belt	 New belt Used belt	 8.0 – 11 mm (0.31 – 0.43 in.) 11 – 16 mm (0.43 – 0.63 in.)
Injection timing	Plunger stroke		1.31 – 1.37 mm (0.0516 – 0.0539 in.)
Injection nozzles	Nozzle type Nozzle opening pressure	 New nozzle Reused nozzle	DLLA150P59 19,610 – 20,590 kPa (200 – 210 kgf/cm^2, 2,840 – 2,990 psi) 17,650 – 20,590 kPa (180 – 210 kgf/cm^2, 2,560 – 2,990 psi)
Idle speed	–		650 – 750 rpm
Maximum speed	–		4,050 – 4,250 rpm
Compression pressure		at 250 rpm STD Minimum Difference of pressure between each cylinder	2,942 kPa (30.3 kgf/cm^2, 427 psi) or more 196 kPa (2.0 kgf/cm^2, 28 psi) 196 kPa (2.0 kgf/cm^2, 28 psi) or less
Valve Clearance		at hot Intake Exhaust	0.20 mm (0.008 in.) 0.36 mm (0.014 in.)
Cylinder head	Cylinder head bolt thread inside diameter Cylinder head gasket thickness	STD Minimum Mark 1.5 Mark 1.6 Mark 1.7	11.800 – 12.000 mm (0.4646 – 0.4724 in.) 11.60 mm (0.4567 in.) 1.47 – 1.53 mm (0.0579 – 0.0602 in.) 1.57 – 1.63 mm (0.0618 – 0.0642 in.) 1.67 – 1.73 mm (0.0657 – 0.0681 in.)

15B–FTE

V belt	Deflection Generator belt	 New belt Used belt	 12 – 16 mm (0.47 – 0.62 in.) 14 – 19 mm (0.55 – 0.74 in.)
Injection nozzles	Nozzle opening pressure	 New nozzle Reused nozzle	 17,65 – 18,63 kPa (180 – 190 kgf/cm^2, 2,560 – 2,700 psi) 25,5 – 26,48 kPa (260 – 270 kgf/cm^2, 3,698 – 3,840 psi)
Compression pressure		at 250 rpm STD Minimum Difference of pressure between each cylinder	3,000 kPa (31.0 kgf/cm^2, 441 psi) or more 1,960 kPa (20.0 kgf/cm^2, 284 psi) 196 kPa (2.0 kgf/cm^2, 28 psi) or less
Valve Clearance		at hot Intake Exhaust	0.20 mm (0.008 in.) 0.36 mm (0.014 in.)
Cylinder head	Cylinder head bolt thread inside diameter Cylinder head gasket thickness	STD Minimum Mark 1.5 Mark 1.6 Mark 1.7	11.800 – 12.000 mm (0.4646 – 0.4724 in.) 11.60 mm (0.4567 in.) 1.17 – 1.23 mm (0.0579 – 0.0602 in.) 1.27 – 1.33 mm (0.0618 – 0.0642 in.) 1.37 – 1.43 mm (0.0657 – 0.0681 in.)

S05C–B

V belt	Deflection Generator belt	 New belt Used belt	 5.5 – 6.5 mm (0.217 – 0.256 in.) 6.5 – 7.5 mm (0.256 – 0.295 in.)
Injection nozzles	Pre–lift Shim side		0.095 – 0.115 mm (0.0038 – 0.0045 in.) 1.30 – 1.42 mm (0.052 – 0.055 in.) (Jump at 0.02) 1.44 – 1.70 mm (0.057 – 0.066 in.) (Jump at 0.02)

Injection nozzles	Nozzle opening pressure	New nozzle	16,67 – 17.45 MPa (170 – 178 kgf/cm^2, 2,418 – 2,532 psi)
		Reused nozzle	16,18 – 16,97 kPa (165 – 173 kgf/cm^2, 2,347 – 2,461 psi)
Compression pressure	1st opening pressure		3,400 – 3,700 kPa (35 – 38 kgf/cm^2, 498 – 540 psi) or more
	Minimum		2,700 kPa (28 kgf/cm^2, 398 psi)
	Difference of pressure between each cylinder		290 kPa (3.0 kgf/cm^2, 43 psi) or less
Valve Clearance	at hot	Intake	0.30 mm (0.012 in.)
		Exhaust	0.45 mm (0.018 in.)

S05C–TA

V belt	Deflection Generator belt	New belt	5.5 – 6.5 mm (0.217 – 0.256 in.)
		Used belt	6.5 – 7.5 mm (0.256 – 0.295 in.)
Injection nozzles	Pre–lift		0.077 – 0.113 mm (0.0030 – 0.0044 in.)
	Shim side		1.30 – 1.42 mm (0.052 – 0.055 in.) (Jump at 0.02) 1.44 – 1.70 mm (0.057 – 0.066 in.) (Jump at 0.02)
Injection nozzles	Nozzle opening pressure	New nozzle	18,14 – 18.92 MPa (185 – 193 kgf/cm^2, 2,632 – 2,746 psi)
		Reused nozzle	17,65 – 18,44 MPa (180 – 188 kgf/cm^2, 2,561 – 2,674 psi)
Compression pressure	1st opening pressure		3,400 – 3,700 kPa (35 – 38 kgf/cm^2, 498 – 540 psi) or more
	Minimum		2,700 kPa (28 kgf/cm^2, 398 psi)
	Difference of pressure between each cylinder		290 kPa (3.0 kgf/cm^2, 43 psi) or less
Valve Clearance	at hot	Intake	0.30 mm (0.012 in.)
		Exhaust	0.45 mm (0.018 in.)

S05C–TB

V belt	Deflection Generator belt	New belt	5.5 – 6.5 mm (0.217 – 0.256 in.)
		Used belt	6.5 – 7.5 mm (0.256 – 0.295 in.)
Idle speed	–		640 – 660 rpm
Maximum speed	–		3,240 – 3,300 rpm
Injection nozzles	Pre–lift		0.077 – 0.113 mm (0.0030 – 0.0044 in.)
	Shim side		1.30 – 1.42 mm (0.052 – 0.055 in.) (Jump at 0.02) 1.44 – 1.70 mm (0.057 – 0.066 in.) (Jump at 0.02)
Compression pressure	1st opening pressure		3,400 – 3,700 kPa (35 – 38 kgf/cm^2, 498 – 540 psi) or more
	Minimum		2,700 kPa (28 kgf/cm^2, 398 psi)
	Difference of pressure between each cylinder		290 kPa (3.0 kgf/cm^2, 43 psi) or less
Valve Clearance	at hot	Intake	0.30 mm (0.012 in.)
		Exhaust	0.45 mm (0.018 in.)

W04D–J

V belt	Deflection Generator belt	New belt	7.0 – 8.5 mm (0.276 – 0.335 in.)
		Used belt	8.5 – 10.0 mm (0.335 – 0.394 in.)
Injection nozzles	Nozzle opening pressure	New nozzle	21,6 – 22.6 MPa (220 – 203 kgf/cm^2, 3,130 – 3,272 psi)
		Reused nozzle	21,6 – 22,4 MPa (220 – 228 kgf/cm^2, 3,130 – 3,243 psi)
Compression pressure	1st opening pressure		3,540 – 3,820 kPa (36 – 39 kgf/cm^2, 512 – 554 psi) or more
	Minimum		2,70 kPa (28 kgf/cm^2, 399 psi)
	Difference of pressure between each cylinder		290 kPa (3.0 kgf/cm^2, 43 psi) or less
Valve Clearance	at hot	Intake	0.35 mm (0.012 in.)
		Exhaust	0.55 mm (0.022 in.)