SERVICE SPECIFICATIONS

SERVICE DATA

EG01C-01

Fuel heater	Resistance	at 20°C (68°F)	0.5 — 2.0 Ω
Injection nozzles (3B)	Nozzle type		DN0SDND136
	Nozzle opening pressure	New nozzle	12,260 — 13,240 kPa (125 — 135 kgf/cm², 1,780 — 1,920 psi)
		Reused nozzle	11,280 — 13,240 kPa (115 — 135 kgf/cm², 1,640 — 1,920 psi)
Injection nozzles (14B)	Nozzle type		DLLA150P59
	Nozzle opening pressure	New nozzle	19,610 — 20,590 kPa (200 — 210 kgf/cm², 2,840 — 2,990 psi)
		Reused nozzle	17,650 — 20,590 kPa (180 — 210 kgf/cm², 2,560 — 2,990 psi)
Injection nozzles (15B—F, 15B—FT)	Nozzle type	15B—F	DLLA150P644
		15B—FT	DLLA150P645
	No.1 nozzle opening pressure	15B—F	16,670 — 17,650 kPa (170 — 180 kgf/cm², 2,420 — 2,560 psi)
		15B—FT	17,650 — 18,630 kPa (180 — 190 kgf/cm², 2,560 — 2,700 psi)
	No.2 nozzle opening pressure	15B—F	19,520 — 20,500 kPa (200 — 210 kgf/cm², 2,830 — 2,970 psi)
		15B—FT	18,530 — 19,520 kPa (190 — 200 kgf/cm², 2,690 — 2,830 psi)
	Needle—lift		0.23 — 0.28 mm (0.0091 — 0.0110 in.)
	Pre—lift		0.10 — 0.12 mm (0.0039 — 0.0047 in.)
Injection pump	Direction of rotation		Clockwise as seen from drive side
	Injection order		1 — 3 — 4 — 2 (A — B — C — D)
	Coupling spring protrusion	15B—F, 15B—FT	1.0 — 1.6 mm (0.039 — 0.063 in.)
	Delivery valve opening pressure	w/ CPV	7,350 — 8,330 kPa (75 — 85 kgf/cm², 1,067 — 1,209 psi)
	Roller height variation		0.02 mm (0.0008 in.)
	Plunger spring deviation		2.0 mm (0.079 in.)
	Spring free length		
	Delivery valve spring	15B—F, 15B—FT	12.6 mm (0.496 in.)
		Others	19.4 mm (0.764 in.)
	Plunger spring	15B—F, 15B—FT	34.1 mm (1.343 in.)
		Others	32.4 mm (1.276 in.)
	Coupling spring	3B, 14B	15.4 mm (0.606 in.)
	Boost compensator spring	15B—FT	19.9 mm (0.783 in.)
	Pickup sensor resistance		650 — 970 Ω
	Timer adjusting screw protrusion pre—setting		7.5 — 8.0 mm (0.295 — 0.315 in.)
	Flyweight holder thrust clearance		0.15 — 0.35 mm (0.0059 — 0.0138 in.)
	Governor shaft protrusion		0.5 — 2.0 mm (0.020 — 0.079 in.)

TORQUE SPECIFICATIONS

Part tightened	N·m	kgf·cm	ft·lbf
Injection pipe x Injection nozzle	25	255	18
Injection pipe x Injection pump	25	255	18
Clamp for injection pipe	7.5	76	66 in.·lbf
Nozzle leakage pipe x Injection nozzle (3B)	45	460	33
Injection nozzle x Cylinder head (3B)	70	710	52
Nozzle holder body x Nozzle holder retaining nut (3B)	69	700	51
Nozzle leakage pipe x Injection nozzle (14B)	25	255	18
Injection nozzle x Cylinder head (14B)	18	185	13
Nozzle holder retaining nut x Nozzle holder body (Except 3B)	29	300	22
Nozzle holder clamp x Cylinder head (15B–F, 15B–FT)	21	210	15
Nozzle leakage pipe x Injection nozzle (15B–F, 15B–FT)	12	125	9
Nozzle leakage pipe x Cylinder head (15B–F, 15B–FT)	14	145	10
Fuel inlet hollow screw x Injection pump body	37	375	27
Regulator valve x Injection pump body	8.8	90	78 in.·lbf
Feed pump cover x Injection pump body	3.0	31	27 in.·lbf
Distributive head x Injection pump body	12	120	9
Governor link support bolt	11	115	8
Delivery valve holder x Distributive head	59	600	43
Distributive head plug x Distributive head	88	900	65
Diaphragm x Push rod (15B–FT)	7.35	75	65 in.·lbf
Governor cover x Injection pump body	8.3	85	74 in.·lbf
Adjusting lever x Adjusting lever shaft	8.3	85	74 in.·lbf
Pickup sensor x Injection pump body	21	210	15
Fuel cut solenoid x Distributive head	22	225	16
Dash pot x Injection pump	11	115	8
Fuel inlet pipe x Injection pump	25	250	18
Fuel outlet pipe x Injection pump	25	250	18
Spline shaft x Drive shaft (3B, 14B)	54	550	40
Spline shaft x Drive shaft (15B–F, 15B–FT)	84	860	62
Injection pump x Timing gear case	19	190	14
Pump stay x Injection pump	29	295	21
Pump stay x Cylinder block	38	380	27