ENGINE FUEL

SERVICE DATA

SS0QX–04

Fuel heater	Resistance	at 20˚C (68˚F)	0.5 – 2.0 Ω
Injection nozzles	Nozzle opening pressure		
	New nozzle		14,710 – 15,690 kPa (150 – 160 kgf/cm^2, 2,133 – 2,276 psi)
	Reused nozzle		14,220 – 15,200 kPa (145 – 155 kgf/cm^2, 2,062 – 2,205 psi)
	Adjusting shim thickness		0.900 mm (0.0354 in.) 0.925 mm (0.0364 in.)
			0.950 mm (0.0374 in.) 0.975 mm (0.0384 in.)
			1.000 mm (0.0394 in.) 1.025 mm (0.0404 in.)
			1.050 mm (0.0413 in.) 1.075 mm (0.0423 in.)
			1.100 mm (0.0433 in.) 1.125 mm (0.0443 in.)
			1.150 mm (0.0453 in.) 1.175 mm (0.0463 in.)
			1.200 mm (0.0472 in.) 1.225 mm (0.0482 in.)
			1.250 mm (0.0492 in.) 1.275 mm (0.0502 in.)
			1.300 mm (0.0512 in.) 1.325 mm (0.0522 in.)
			1.350 mm (0.0531 in.) 1.375 mm (0.0541 in.)
			1.400 mm (0.0551 in.) 1.425 mm (0.0561 in.)
			1.450 mm (0.0571 in.) 1.475 mm (0.0581 in.)
			1.500 mm (0.0591 in.) 1.525 mm (0.0600 in.)
			1.550 mm (0.0610 in.) 1.575 mm (0.0620 in.)
			1.600 mm (0.0630 in.) 1.625 mm (0.0640 in.)
			1.650 mm (0.0650 in.) 1.675 mm (0.0659 in.)
			1.700 mm (0.0669 in.) 1.725 mm (0.0679 in.)
			1.750 mm (0.0689 in.) 1.775 mm (0.0699 in.)
			1.800 mm (0.0709 in.) 1.825 mm (0.0719 in.)
			1.850 mm (0.0728 in.) 1.875 mm (0.0738 in.)
			1.900 mm (0.0748 in.) 1.925 mm (0.0758 in.)
			1.950 mm (0.0768 in.)
Injection pump	Direction of rotation		Clockwise as seen from drive side
	Injection order		1 – 4 – 2 – 6 – 3 – 5 (A – B – C – D – E – F)
	Plunger spring deviation		2.0 mm (0.079 in.)
	Spring free length		
	Delivery valve spring		24.4 mm (0.961 in.)
	Plunger spring		30.0 mm (1.181 in.)
	Coupling spring		16.6 mm (0.645 in.)
	Pneumatic bellows spring	w/ HAC	35.0 mm (1.378 in.)
	Roller height variation		0.02 mm (0.0008 in.)
	Pickup sensor resistance		650 – 970 Ω
	Timer adjusting screw protrusion pre–setting		7.5 – 8.0 mm (0.295 – 0.315 in.)
	Plunger spring shim thickness		0.5 mm (0.020 in.) 0.8 mm (0.031 in.)
			1.0 mm (0.039 in.) 1.2 mm (0.047 in.)
			1.5 mm (0.059 in.) 1.8 mm (0.071 in.)
			2.0 mm (0.079 in.)
	Flyweight holder thrust clearance		0.15 – 0.35 mm (0.0059 – 0.0138 in.)
	Governor gear adjusting washer thickness		1.05 mm (0.0413 in.) 1.25 mm (0.0492 in.)
			1.45 mm (0.0571 in.) 1.65 mm (0.0650 in.)
			1.85 mm (0.0728 in.)
	Governor shaft protrusion		0.3 – 2.0 mm (0.012 – 0.079 in.)
	Plunger pre–strokes		0.2 mm (0.0079 in.)
	Adjusting shim thickness		Shim are available in 131 sized in increments
			0.01 mm (0.004 in.), from 1.90 mm (0.0748 in.)
			to 3.20 mm (0.1260 in.)
	Timer inner spring with coefficient		1.57 N/mm (0.16 kgf/mm) 1.67 N/mm (0.17 kgf/mm)
			1.77 N/mm (0.18 kgf/mm) 1.86 N/mm (0.19 kgf/mm)
			1.96 N/mm (0.20 kgf/mm)

Injection pump (cont'd)	Governor sleeve plug head thickness	3.0 mm (0.118 in.)	3.1 mm (0.122 in.)
		3.2 mm (0.126 in.)	3.3 mm (0.130 in.)
		3.4 mm (0.134 in.)	3.5 mm (0.138 in.)
		3.6 mm (0.142 in.)	3.7 mm (0.146 in.)
		3.8 mm (0.150 in.)	3.9 mm (0.154 in.)
		4.0 mm (0.158 in.)	4.1 mm (0.161 in.)
		4.2 mm (0.165 in.)	