

1GR-FE COOLING**SERVICE DATA**

Water inlet w/ thermostat	Valve opening temperature		80 to 84 °C (176 to 183 °F)
	Valve lift	at 95 °C (203 °F)	8 mm (0.31 in.) or more
Radiator cap	Relief valve opening pressure	Standard	93 to 123 kPa (0.95 to 1.25 kgf/cm ² , 13.5 to 17.8 psi)
		Minimum	78 kPa (0.8 kgf/cm ² , 11.4 psi)

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TORQUE SPECIFICATIONS

Part Tightened		N*m	kgf*cm	ft.*lbf
Cylinder block water drain cock plug x Cylinder block water drain cock		13	130	9
Water pump assembly x Timing chain or belt cover sub-assembly	10 mm (0.39 in.) head	9.0	92	80 in.*lbf
	12 mm (0.47 in.) head	23	235	17
Idler pulley sub-assembly No. 2 x Timing chain or belt cover sub-assembly		39	398	29
Water inlet x Timing chain or belt cover sub-assembly		9.0	92	80 in.*lbf
Fan shroud x Radiator		5.0	51	44 in.*lbf
Fan w/ fluid coupling x Water pump		21	214	15
V-bank cover x Intake air surge tank		7.5	76	66 in.*lbf
Engine under cover sub-assembly No. 1 x Frame assembly		30	306	22
Water inlet w/ thermostat x Water inlet		9.0	92	80 in.*lbf
Radiator x Radiator support		18	184	13
Negative battery terminal		3.9	40	35 in.*lbf

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