2GR-FE COOLING

SERVICE DATA

THERMOSTAT

Condition	Specified Condition
Standard valve opening temperature	80 to 84°C (176 to 183°F)
Standard valve lift	10 mm (0.39 in.) or more at 95°C (203°F)

COOLING FAN MOTOR

Item	Condition	Specified Condition
No. 1 cooling fan motor	20°C (68°F)	11.8 to 14.8 A
No. 2 cooling fan motor	20°C (68°F)	9 to 11 A

COOLING FAN ECU

Condition	Specified Condition
Turn the Ignition switch to the ON position	9 to 14 V

COOLING FAN RELAY

Tester Connection	Specified Condition
3 - 5	10 kΩor higher
3 - 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

RADIATOR

Item	Condition	Specified Condition
Radiator reservoir cap	For brand-new cap	93.3 to 122.7 kPa (0.95 to 1.25 kgf/cm^2, 13.5 to 17.8 psi)
	After using cap	78.5 kPa (0.8 kgf/cm^2, 11.4 psi)

TORQUE SPECIFICATIONS

COOLANT

Part Tightened	N*m	kgf*cm	ft.*lbf
Cylinder block drain cock plug x Cylinder block	13	130	9
air drain cock plug x water inlet housing	13	130	9

WATER PUMP

Part Tightened		N*m	kgf*cm	ft.*lbf
Water pump x Cylinder block	for bolt A	21	214	15
	for bolt B	9.1	93	81 in.*lbf
	for bolt C	9.1	93	81 in.*lbf
V-ribbed belt tensioner assembly x Cylinder block		43	438	32
No. 2 idler pulley sub-assembly x Cylinder block		43	438	32
Water pump pulley x Water pump		21	214	15
Water inlet housing x Cylinder block		10	102	7
No.1 engine front mounting bracket LH x Cylinder block		54	551	40

THERMOSTAT

Part Tightened	N*m	kgf*cm	ft.*lbf
Water inlet x Water inlet housing	10	102	7
No. 2 idler pulley sub-assembly x Cylinder block	43	438	32

RADIATOR

Part Tightened		N*m	kgf*cm	ft.*lbf
Radiator water inlet x Radiator		7.1	72	63 in.*lbf
Inlet sub-assembly x Radiator		7.1	72	63 in.*lbf
No. 2 radiator support x Radiator		13	133	10
Fan shroud with cooling fan x Radiator		6.0	61	53 in.*lbf
Condenser assembly x Radiator assembly with fan shroud and fan motor		3.9	40	35 in.*lbf
No. 1 radiator support x Radiator assembly with fan shroud and fan motor	for bolt A	13	130	9
	for bolt B	3.9	40	35 in.*lbf
	for bolt C	6	61	53 in.*lbf
Pressure feed tube assembly x Radiator support sub-assembly		7.8	80	69 in.*lbf
No. 2 oil cooler outlet tube sub-assembly x No. 1 radiator support		6.0	61	53 in.*lbf
Radiator upper support sub-assembly x Radiator support sub-assembly		5.0	51	44 in.*lbf
Hood lock support sub-assembly x Radiator support sub-assembly		8.0	82	71 in.*lbf
Hood lock assembly x Radiator support sub-assembly		8.0	82	71 in.*lbf