

1GR-FE EMISSION CONTROL**SERVICE DATA**

| | | | |
|---|------------|-----------------------|-----------------------------|
| Air-fuel ratio compensation system | Voltage | B22 (A1A+) - A28 (E2) | 3.3 V |
| | | B23 (A2A+) - A28 (E2) | 3.3 V |
| | | B30 (A1A-) - A28 (E2) | 2.9 V |
| | | B31 (A2A-) - A28 (E2) | 2.9 V |
| Fuel cut off rpm | Cut off | | 2,500 rpm |
| | Return | | 1,400 rpm |
| Lead detection pump | Voltage | A23 (VC) - A28 (E2) | 4.5 to 5.5 V |
| | | E22 (PPMP) - A28 (E2) | 1.425 to 4.150 V |
| Vacuum Switching Valve No. 1 | Resistance | at 20 °C (68 °F) | 26 to 30 Ω |
| Air fuel ratio sensor (Bank 1, Bank 2) | Resistance | 1 (HT) - 2 (+B) | 1.8 to 3.4 Ω at 20°C (68°F) |
| | | 1 (HT) - 4 (E1) | 10 kΩ or higher |
| Heated oxygen sensor No. 2 (Bank 1, Bank 2) | Resistance | 1 (HT) - 2 (+B) | 11 to 16 Ω at 20°C (68°F) |
| | Resistance | 1 (HT) - 4 (E1) | 10 kΩ or higher |

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TORQUE SPECIFICATIONS

| Part Tightened | N*m | kgf*cm | ft.*lbf |
|---|------------|---------------|----------------|
| Duty vacuum switching valve x Intake air surge tank | 9.0 | 92 | 80 in.*lbf |
| Ventilation valve x Cylinder head cover | 27 | 275 | 20 |
| Heated oxygen sensor x Exhaust pipe | 3.9 | 40 | 35 in.*lbf |
| Air fuel ratio sensor x Exhaust manifold | 44 | 449 | 33 |
| Negative battery terminal | 3.9 | 40 | 35 in.*lbf |
| Charcoal canister x Body | 20 | 204 | 15 |
| Charcoal canister filter No. 2 x Body | 20 | 204 | 15 |

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