

COMMON SPECS & PROCEDURES

Sienna

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System	Specification/Procedure
Air Conditioning	
Service	<u>SERVICE DATA</u>
Torque	<u>TORQUE SPECIFICATIONS</u>
Axle Nut/Hub Nut	
Front	294 N.m (2, 998 kgf.cm, 217 ft. lbf)
Rear	294 N.m (2, 998 kgf.cm, 217 ft. lbf)
Battery	<u>SERVICE DATA</u> (For 2GR-FE) <u>SERVICE DATA</u> (For 1AR-FE)
Brakes	
Bleeding Sequence	<u>BLEEDING</u>
Front Brakes	<u>SERVICE DATA</u>
Torque	<u>TORQUE SPECIFICATIONS</u>
Rear Brakes	<u>SERVICE DATA</u>
Torque	<u>TORQUE SPECIFICATIONS</u>
Charging	
Generator	<u>SERVICE DATA</u> (For 2GR-FE) <u>SERVICE DATA</u> (For 1AR-FE)
Torque	<u>TORQUE SPECIFICATIONS</u> (For 2GR-FE) <u>TORQUE SPECIFICATIONS</u> (For 1AR-FE)
Drive Belts	
Adjustment	<u>ON-VEHICLE INSPECTION</u> (For 1AR-FE) <u>ON-VEHICLE INSPECTION</u> (For 2GR-FE)
Belt Routing	<u>INSTALLATION</u> (For 1AR-FE) <u>INSTALLATION</u> (For 2GR-FE)
Engine Cooling	
General Service Specifications	<u>SERVICE DATA</u> (For 1AR-FE) <u>SERVICE DATA</u> (For 2GR-FE)
Radiator Cap Pressure	Brand-new Cap, 93 to 123 kPa (1.0 to 1.3 kgf/cm ² , 13.5 to 17.8 psi) Used Cap, 79 kPa (0.8 kgf/cm ² , 11.4 psi)
Thermostat R & I	<u>THERMOSTAT</u> (For 1AR-FE) <u>THERMOSTAT</u> (For 2GR-FE)
Water Pump R & I	<u>WATER PUMP</u> (For 1AR-FE) <u>WATER PUMP</u> (For 2GR-FE)
Engine Mechanical	
Compression	<u>SERVICE DATA</u> (For 1AR-FE)

	<u>SERVICE DATA</u> (For 2GR-FE)
Oil Pressure	
For 1AR-FE	@ idle, 30 kPa (0.3 kgf/cm ² , 4.4 psi) or more @ 3, 000 rpm, 260 kPa (2.7 kgf/cm ² , 38 psi) or more
For 2GR-FE	@ idle, 80 kPa (0.8 kgf/cm ² , 11.6 psi) or more @ 3, 000 rpm, 380 kPa (3.9 kgf/cm ² , 55 psi) or more
Overhaul	<u>SERVICE DATA</u> (For 1AR-FE) <u>SERVICE DATA</u> (For 2GR-FE)
Torque	<u>TORQUE SPECIFICATIONS</u> (For 1AR-FE) <u>TORQUE SPECIFICATIONS</u> (For 2GR-FE)
Fluid Specifications	See FLUIDS under MAINTENANCE tab.
Flywheel/Flex Plate (Drive Plate) Torque	
1AR-FE	98 N.m (999 kgf.cm, 72 ft. lbf)
2GR-FE	83 N.m (850 kgf.cm, 61 ft. lbf)
Fuel System	
Pressure Specification	@ idle, 304 to 343 kPa (3.1 to 3.5 kgf/cm ² , 44 to 50 psi) 5 min. after engine has stopped, 147 kPa (1.5 kgf/cm ² , 21 psi) or more
Fuel Pressure Test Procedure	<u>ON-VEHICLE INSPECTION</u> (For 1AR-FE) <u>ON-VEHICLE INSPECTION</u> (For 2GR-FE)
Fuel Filter Location	N/A
Ignition	
Firing Order & Cylinder Identification	<u>FIRING ORDER & CYLINDER IDENTIFICATION</u>
Spark Plug	
For 1AR-FE	
(Type = DENSO SK16HR11)	
Gap	Used Spark Plug, 1.4 mm (0.055 in.) New Spark Plug, 1.0 to 1.1 mm (0.039 to 0.043 in.)
Torque	25 N*m (255 kgf*cm, 18 ft.*lbf)
For 2GR-FE	
(Type = DENSO FK20HR11)	
Gap	Used Spark Plug, 1.4 mm (0.055 in.) New Spark Plug, 1.0 to 1.1 mm (0.039 to 0.043 in.)
Torque	18 N*m (184 kgf*cm, 13 ft.*lbf)
Starting	
Starter	<u>STARTER</u> (1AR-FE) <u>STARTER</u> (2GR-FE)
Torque	<u>TORQUE SPECIFICATIONS</u> (For 1AR-FE) <u>TORQUE SPECIFICATIONS</u> (For 2GR-FE)
Wheel Alignment	
Adjustment Specifications	<u>SERVICE DATA</u>

Torque	<u>TORQUE SPECIFICATIONS</u>
Wheel & Tire	
Wheel Lug Nut Torque	103 N.m (1, 050 kgf.cm, 76 ft. lbf)