

Part 8

SPECIFICATIONS

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Dimensions and weight

mm (in.)

	P225/75R 15 tire	P265/70R 16 tire	
		Without wheel opening extension	With wheel opening extension
Overall length	4540 (178.7)	4540 (178.7)	4540 (178.7)
Overall width	1690 (66.5)	1730 (68.1)	1800 (70.9)
Overall height	1715 (67.5)*	1760 (69.3)*	1760 (69.3)*
Wheel base	2675 (105.3)	2675 (105.3)	2675 (105.3)
Front tread	1505 (59.3)	1505 (59.3)	1505 (59.3)
Rear tread	1495 (58.9)	1510 (59.4)	1510 (59.4)

Cargo weight rating kg (lb.):
200 (300)

*: Unladen vehicle

Engine

Model:

3RZ-FE and 5VZ-FE

Type:

3RZ-FE engine

4 cylinder in line, 4 cycle, gasoline

5VZ-FE engine

6 cylinder V type 4 cycle, gasoline

Bore and stroke, mm (in.):

3RZ-FE engine

95.0 x 95.0 (3.74 x 3.74)

5VZ-FE engine

93.5 x 82.0 (3.68 x 3.23)

Displacement, cm³ (cu. in.):

3RZ-FE engine

2694 (164.3)

5VZ-FE engine

3378 (206.1)

Fuel

Fuel type:

Unleaded gasoline, Research Octane
Number 91 (Octane Rating 87) or
higher

Fuel tank capacity, L (gal., Imp. gal.):

70 (18.5, 15.4)

Service specifications

ENGINE

Valve clearance (engine cold), mm (in.)

3RZ-FE engine

Intake 0.15—0.25 (0.006—0.010)

Exhaust 0.25—0.35 (0.010—0.014)

5VZ-FE engine

Intake 0.13—0.23 (0.006—0.009)

Exhaust 0.27—0.37 (0.011—0.014)

Spark plug type:

3RZ-FE engines

NIPPONDENSO

K16R-U

NGK

BKR5EYA

5VZ-FE engine

NIPPONDENSO

K16TR11

NGK

BKR5EKB11

Spark plug gap, mm (in.):

3RZ-FE engine 0.8 (0.031)

5VZ-FE engine 1.1 (0.043)

Drive belt tension measured with Bor-
roughs drive belt tension gauge No.
BT-33-73F (used belt), lbf:

3RZ-FE engine

Generator belt 115 ± 20

Air conditioning

compressor belt 100 ± 20

Power steering

pump belt 100 ⁺²⁵₋₁₅

5VZ-FE engine	
Generator belt	100 ± 20
Air conditioning compressor belt	100 ± 20
Power steering pump belt	100 ⁺²⁰ ₋₁₅

ENGINE LUBRICATION

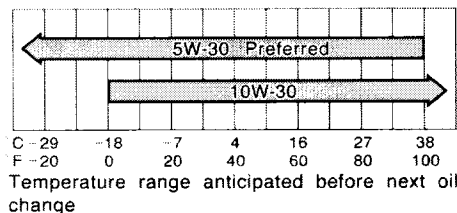
Oil capacity (drain and refill),
L (qt., Imp. qt.):

3RZ-FE engine	
With filter	5.4 (5.7, 4.8)
Without filter	4.9 (5.0, 4.1)
5VZ-FE engine	
With filter	5.2 (5.5, 4.6)
Without filter	4.9 (5.2, 4.3)

Oil grade:

API SH, "Energy-Conserving II" multi-grade engine oil or ILSAC multigrade engine oil is recommended.

Recommended oil viscosity (SAE):



60040Z04

COOLING SYSTEM

Total capacity, L (qt., Imp. qt.):

3RZ-FE engine	
With rear heater	11.0 (11.6, 9.7)
Without rear heater	10.0 (10.6, 8.8)

5VZ-FE engine	
With rear heater	9.0 (9.5, 7.9)
Without rear heater	8.0 (8.5, 7.0)

Coolant type:

With ethylene-glycol antifreeze
(Do not use alcohol type.)

BATTERY

—Maintenance type battery

Specific gravity reading at 20 °C (68 °F):

1.280	Fully charged
1.180	Half charged
1.080	Discharged

—Non-maintenance battery

Open voltage* at 20 °C (68 °F):

12.7 V	Fully charged
12.3 V	Half charged
11.9 V	Discharged

*: Voltage that is checked 20 minutes after the key is removed with all the lights turned off

Charging rates:

Non-maintenance battery	5 A max.
Maintenance type battery	
Quick charge	15 A max.
Slow charge	5 A max.

CLUTCH

Pedal freeplay, mm (in.):

5—15 (0.2—0.6)

Fluid type:

SAE J1703 or FMVSS No. 116 DOT 3

MANUAL TRANSMISSION

Oil capacity, L (qt., Imp. qt.):

3RZ-FE engine

Two-wheel drive models

2.6 (2.7, 2.3)

Four-wheel drive models

2.5 (2.6, 2.2)

5VZ-FE engine

2.2 (2.3, 1.9)

Oil type:

Multipurpose gear oil API GL-4 or

GL-5

Recommended oil viscosity:

SAE 75W-90

AUTOMATIC TRANSMISSION

Fluid capacity (drain and refill),

L (qt., Imp. qt.):

Two-wheel drive models

Up to 1.6 (1.7, 1.4)

Four-wheel drive models

Up to 2.0 (2.1, 1.8)

Fluid type:

Automatic transmission fluid D-II or
DEXRON®III (DEXRON®II)

TRANSFER

Oil capacity, L (qt., Imp. qt.):

1.0 (1.1, 0.9)

Oil type:

Multipurpose gear oil API GL-4 or

GL-5

Recommended oil viscosity:

SAE 75W-90

DIFFERENTIAL

Oil capacity, L (qt., Imp. qt.):

Two-wheel drive models

2.75 (2.9, 2.4)

Four-wheel drive models

Front

A.D.D.

1.15 (1.2, 1.0)

Except A.D.D.

1.1 (1.2, 1.0)

Rear

With rear differential lock system

2.75 (2.9, 2.4)

Without rear differential lock system

2.45 (2.6, 2.2)

Oil type:

Hypoid gear oil API GL-5

Recommended oil viscosity:

Front

A.D.D.

SAE 75W-90

Except A.D.D.

Above -18°C (0°F)

SAE 90

Below -18°C (0°F)

SAE 80W or 80W-90

Rear

Above -18°C (0°F)

SAE 90

Below -18°C (0°F)

SAE 80W or 80W-90

CHASSIS LUBRICATION

Propeller shafts:

Spiders

Lithium base chassis grease,
NLGI No. 2

Slide yoke and double cardan joint
Molybdenum-disulfide lithium base
chassis grease, NLGI No. 2

BRAKES

Minimum pedal clearance when depressed with the pressure of 490 N (50 kgf, 110 lbf) with the engine running, mm (in.):

72 (2.9)

Pedal freeplay, mm (in.):

3—6 (0.12—0.24)

Pad wear limit, mm (in.):

1.0 (0.04)

Lining wear limit, mm (in.):

1.0 (0.04)

Parking brake adjustment when pulled with the force of 196 N (20 kgf, 44 lbf):

7—9 clicks

Fluid type:

SAE J1703 or FMVSS No. 116

DOT 3

STEERING

Wheel freeplay:

Less than 30 mm (1.2 in.)

Power steering fluid type:

Automatic transmission fluid

DEXRON®II or III

Tires

Tire size	Tire pressure kPa (kgf/cm ² or bar, psi)		Wheel size
	Front	Rear	
P265/70R16	200 (2.2, 32)	220 (2.2, 32)	7J x 16J* ¹ 7JJX16* ²
P225/75R15	200 (2.0, 29)	200 (2.0, 29)	7J x 15* ¹ 7JJ x 15* ²

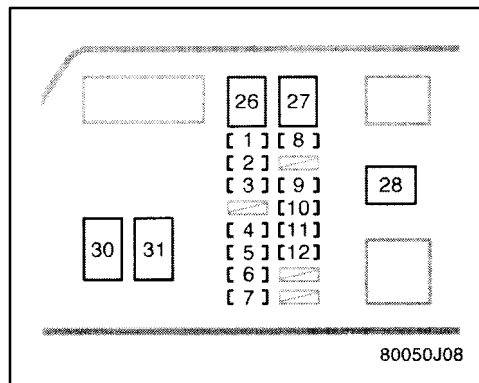
Wheel nut torque, N•m (kg•fm, ft•lbf):

110 (11.5, 83)

*¹: Vehicles with steel wheels

*²: Vehicles with aluminum wheel

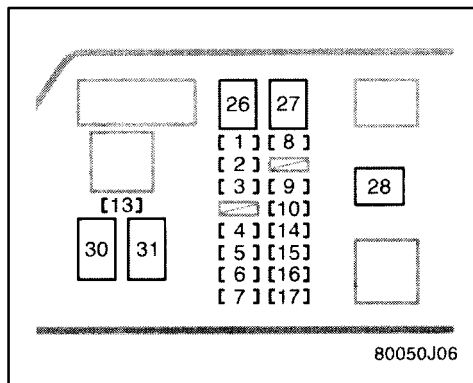
Fuses



Engine compartment (U.S.A.)

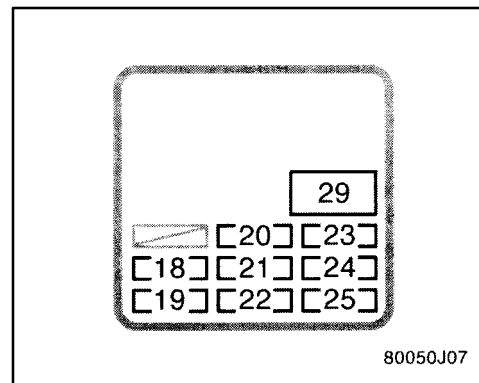
Fuses (type A)

1. **DEFOG 15 A:** Back window defogger
2. **STOP 10 A:** Stop lights, high-mounted stoplight
3. **ALT-S 7.5 A:** Charging system
4. **OBD 7.5 A:** On-board diagnosis system
5. **EFI 15 A:** Multiport fuel injection system/sequential multiport fuel injection system



Engine compartment (Canada)

6. **HORN 15 A:** Horns
7. **DOME 15 A:** Interior lights, personal lights, luggage compartment light
8. **TAIL 10 A:** Tail lights, parking lights, license plate lights
9. **A.C. 10 A:** Air conditioning control system
10. **RR HTR 10 A:** Rear air conditioning control system
11. **HEAD (RH) 10 A:** Right-hand headlight
12. **HEAD (LH) 10 A:** Left-hand headlight



Instrument panel

13. **DRL 7.5 A:** Daytime running light system
14. **HEAD (HI RH) 10 A:** Right-hand headlight (high beam)
15. **HEAD (HI LH) 10 A:** Left-hand headlight (high beam)
16. **HEAD 10 A:** Right-hand headlight (low beam)
17. **HEAD 10 A:** Left-hand headlight (low beam)
18. **ACC 15 A:** Car audio system, power antenna, clock, power rear view mirror control

- 19.ECU-B 7.5 A:** SRS airbag warning light
- 20.4WD 20 A:** A.D.D. control system, four-wheel drive control system, rear differential lock system
- 21.TURN 10 A:** Turn signals lights, emergency flashers
- 22.GAUGE 10 A:** Gauges and meters, back window defogger, daytime running light system, air conditioning system, electric moon roof
- 23.ECU-IG 10 A:** Cruise control system, anti-lock brake system, electronically controlled automatic transmission system, power antenna
- 24.WIPER 240 A:** Windshield wipers and washer, back window wiper
- 25.IGN 7.5 A:** SRS airbag system, multiport fuel injection system / sequential multiport fuel injection system, discharge warning light

Fuses (type B)

- 26.HEATER 50 A:** Air conditioning system, "A.C." fuse
- 27.AM1 40 A:** Starting system
- 28.AM2 30 A:** Starting system, "IGN" fuse
- 29.POWER 30 A:** Power window, power back window, electric moon roof

Fuses (type C)

- 30.ABS 60 A:** Anti-lock brake system
- 31.ALT 100 A:** Charging system

