

Part 8

SPECIFICATIONS

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Dimensions and weight

TWO-WHEEL DRIVE MODELS

		Normal cab models	Xtra-cab models
Overall length	mm (in.)	4440 (174.8) ^{*1}	4910 (193.3) ^{*1}
		4590 (180.7) ^{*2}	5055 (199.0) ^{*2}
Overall width	mm (in.)	1690 (66.5)	1690 (66.5)
Overall height	mm (in.)	1550 (61.0) ^{*3, 5}	1560 (61.4) ^{*5}
		1555 (61.2) ^{*4, 5}	1575 (62.0) ^{*6}
		1570 (61.8) ^{*3, 6}	
		1575 (62.0) ^{*4, 6}	
Wheelbase	mm (in.)	2625 (103.3)	3095 (121.9)
Front tread	mm (in.)	1395 (54.9) ^{*3}	1425 (56.1)
		1425 (56.1) ^{*4}	
Rear tread	mm (in.)	1415 (55.7) ^{*3}	1440 (56.7)
		1440 (56.7) ^{*4}	
Cargo weight rating	kg (lb.)	500 (1100) ^{*7}	500 (1100) ^{*7}
		430 (950) ^{*8}	430 (950) ^{*8}
			295 (650) ^{*9}

*1. Without rear step bumper

*2. With rear step bumper

*3. With P195/75R 14 tires

*4. With P215/70R 14 tires

*5. Unladen vehicle plus two occupants

*6. Unladen vehicle

*7. With 1 or 2 occupants

*8. With 3 occupants

*9. With 5 occupants

FOUR-WHEEL DRIVE MODELS

		Normal cab models	Xtra-cab models
Overall length	mm (in.)	4585 (180.5)	5055 (199.0)
Overall width	mm (in.)	1690 (66.5) ^{*1} 1720 (67.7) ^{*2}	1690 (66.5) ^{*1} 1720 (67.7) ^{*2}
Overall height	mm (in.)	1690 (66.5) ^{*1,3} 1720 (67.7) ^{*2,3} 1710 (67.3) ^{*1,4} 1740 (68.5) ^{*2,4}	1685 (66.3) ^{*1,3} 1715 (67.5) ^{*2,3} 1700 (66.9) ^{*1,4} 1735 (68.3) ^{*2,4}
Wheelbase	mm (in.)	2625 (103.3)	3095 (121.9)
Front tread	mm (in.)	1460 (57.5) ^{*5} 1500 (59.1) ^{*6}	1460 (57.5) ^{*5} 1500 (59.1) ^{*6}
Rear tread	mm (in.)	1455 (57.3) ^{*5} 1495 (58.9) ^{*6}	1455 (57.3) ^{*5} 1495 (58.9) ^{*6}
Cargo weight rating	kg (lb.)	500 (1100)	500 (1100) ^{*7} 317 (700) ^{*8}

*1: With P225/75R 15 tires

*2: With 31 x 10.5R 15 LT tires

*3: Unladen vehicle plus two occupants

*4: Unladen vehicle

*5: With steel wheels

*6: With aluminum wheels

*7: With 3 occupants

*8: With 5 occupants

Engine

Model:

2RZ-FE, 3RZ-FE and 5VZ-FE

Type:

2RZ-FE and 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.):

2RZ-FE engine

95.0 x 86.0 (3.74 x 3.39)

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.):

2RZ-FE engine

2438 (148.8)

3RZ-FE engine

2694 (164.4)

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.):

Two-wheel drive models

57 (15.1, 12.5)

Four-wheel drive models

68 (18.0, 15.0)

Service specifications

ENGINE

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

2RZ-FE and 3RZ-FE engines

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:

2RZ-FE and 3RZ-FE engines

NIPPONDENSO K16R-U

NGK BKR5EYA

5VZ-FE engine

NIPPONDENSO K16TR11

NGK BKR5EKB11

Spark plug gap, mm (in.):

2RZ-FE and 3RZ-FE engines

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:

2RZ-FE and 3RZ-FE engines

Generator belt 115 ± 20

Air conditioning compressor belt 100 ± 20

Power steering pump belt 100⁺²⁰₋₁₅

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.):

Two-wheel drive models

2RZ-FE engine

With filter 5.5 (5.8, 4.8)

Without filter 4.8 (5.0, 4.2)

5VZ-FE engine

With filter 5.4 (5.7, 4.8)

Without filter 5.1 (5.4, 4.5)

Four-wheel drive models

3RZ-FE engine

With filter 5.4 (5.7, 4.8)

Without filter 4.7 (5.0, 4.1)

5VZ-FE engine

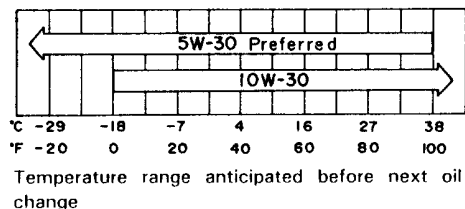
With filter 5.2 (5.5, 4.6)

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):



60040-103U

COOLING SYSTEM

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

Two-wheel drive models

With manual transmission

2RZ-FE engine

8.0 (8.5, 7.0)

5VZ-FE engine

10.1 (10.7, 8.9)

With automatic transmission

2RZ-FE engine

7.8 (8.2, 6.9)

5VZ-FE engine

10.0 (10.5, 8.8)

Four-wheel drive models

With manual transmission

3RZ-FE engine

8.3 (8.8, 7.3)

5VZ-FE engine

10.1 (10.7, 8.9)

With automatic transmission

3RZ-FE engine

8.2 (8.7, 7.2)

5VZ-FE engine

10.0 (10.5, 8.8)

Coolant type:

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

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:

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.):

2RZ-FE engine

2.6 (2.7, 2.3)

3RZ-FE engine

2.5 (2.6, 2.2)

5VZ-FE engine

Two-wheel drive models

2.6 (2.7, 2.3)

Four-wheel drive models

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

2RZ-FE engine Up to 2.4 (2.5, 2.1)

5VZ-FE engine 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

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

2RZ-FE engine 1.35 (1.4, 1.2)

5VZ-FE engine 2.55 (2.7, 2.2)

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

Short wheel base

With rear differential lock system

2.65 (2.8, 2.3)

Without rear differential lock system

2.55 (2.7, 2.2)

Extra long wheel base

With rear differential lock system

2.95 (3.1, 2.6)

Without rear differential lock system

2.05 (2.2, 1.8)

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

Wheel bearings:

Lithium base wheel bearing grease,
NLGI No. 2

Front drive shaft thrust bushings:

Synthetic oil and lithium soap base
chassis grease, NLGI No. 1

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 (2.8)

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):

12—18 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

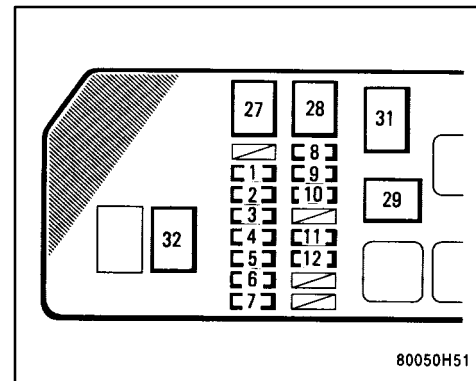
DEXRON®-II or -III

Tires

Tire size	Tire pressure kPa (kgf/cm ² or bar, psi)		Wheel size
	Front	Rear	
P195/75R14	200 (2.0, 29)	240 (2.4, 35)	14 x 5J
P215/70R14	200 (2.0, 29)	200 (2.0, 29)	14 x 6J 14 x 6JJ
P225/75R15	180 (1.8, 26)	200 (2.0, 29)	15 x 6J 15 x 7JJ
31x10.5R15LT	180 (1.8, 26)	200 (2.0, 29)	15 x 7JJ

Wheel nut torque, N•m (kgf•m, ft•lbf):
110 (11.5, 83)

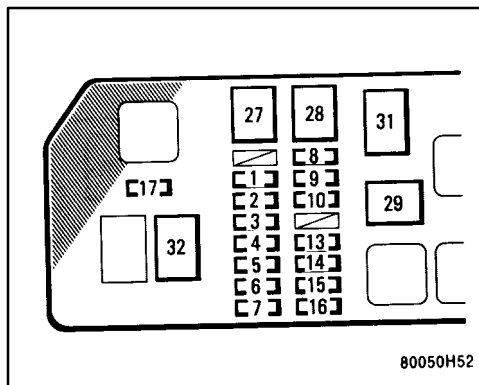
Fuses



Engine compartment (U.S.A.)

Fuses (type A)

- 1. STOP 15 A:** Stop lights, high-mounted stoplight, cruise control system
- 2. ALT-S 7.5 A:** Charging system
- 3. STA 7.5 A:** Multiport fuel injection system/sequential multiport fuel injection system, starting system, gauges and meters
- 4. OBD 10 A:** On-board diagnosis system
- 5. EFI 15 A:** Multiport fuel injection system/sequential multiport fuel injection system
- 6. HORN 15 A:** Emergency flashers, horns



Engine compartment (Canada)

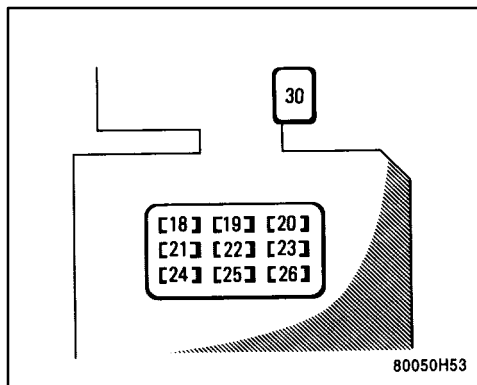
7. DOME 15 A: Car audio system, power antenna, interior light, clock, ignition switch light, personal lights, door courtesy lights

8. TAIL 10 A: Tail lights, license plate lights

9. PANEL 10 A: Emergency flashers, heater control system, air conditioning cooling system, gauges and meters, clock, car audio system overdrive indicator light, glovebox light, cigarette lighter, instrument panel lights

10. A.C 10 A: Air conditioning cooling system

11. HEAD (RH) 10 A: Right-hand headlight



Instrument panel

12. HEAD (LH) 10 A: Left-hand headlight

13. HEAD (HI RH) 10 A: Right-hand headlight (high beam), hi-beam indicator light

14. HEAD (HI LH) 10 A: Left-hand headlight (high beam)

15. HEAD (LO RH) 10 A: Right-hand headlight (low beam)

16. HEAD (LO LH) 10 A: Left-hand headlight (low beam)

17. DRL 7.5 A: Daytime running light system

18. 4WD 15 A: A.D.D. control system, four-wheel drive control system, rear differential lock system

19. GAUGE 10 A: Gauges and meters, back-up lights, cruise control system, power antenna, power door lock control system, electronically controlled automatic transmission system, starting system, charging system, heater control system

20. TURN 10 A: Turn signal lights, emergency flashers

21. ECU-IG 15 A: Cruise control system, anti-lock brake system, shift lock system

22. WIPER 20 A: Windshield wipers and washer

23. IGN 7.5 A: Discharge warning light, SRS airbag system

24. RADIO 7.5 A: Car audio system, power antenna

25. CIG 15 A: Cigarette lighter, clock, power rear view mirrors, back-up lights, shift lock system

26. ECU-B 15 A: SRS airbag warning light, daytime running light system, cruise control system, anti-lock brake system

Fuses (type B)

27. HEATER 40 A: "A.C" fuse

28. AM1 40 A: All components in "STA", "ECU-B", "POWER", "RADIO", "CIG", "GAUGE", "TURN", "ECU-IG", "WIPER" and "4WD" fuses

29. AM2 30 A: All components in "IGN" fuse

30. POWER 30 A: Power windows, power door lock control system

Fuses (type C)

31. ABS 60 A: Anti-lock brake system

32. ALT 80 A: All components in "ABS", "AM1", "STA", "ECU-B", "POWER", "RADIO", "CIG", "GAUGE", "TURN", "ECU-IG", "WIPER", "4WD", "HEATER", "A.C", "TAIL", "PANEL", "STOP" and "ALT-S" fuses

