



4RUNNER (1998)

## Part 8 SPECIFICATIONS

### Dimensions and weight

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## 4RUNNER (1998)

### 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, cm<sup>3</sup> (cu. in.):

3RZ-FE engine

2694 (164.3)

5VZ-FE engine

3378 (206.1)

### Fuel

#### Fuel type:

Unleaded gasoline, Octane Rating 87  
(Research Octane Number 91) 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 . 1 5 — 0 . 2 5  
(0.006—0.010)

Exhaust 0 . 2 5 — 0 . 3 5  
(0.010—0.014)

5VZ-FE engine

Intake 0 . 1 3 — 0 . 2 3  
(0.006—0.009)

Exhaust 0 . 2 7 — 0 . 3 7  
(0.011—0.014)

#### Spark plug type:

3RZ-FE engine

DENSO

K16R-U

NGK

BKR5EYA

5VZ-FE engine

DENSO

K16TR11

NGK

BKR5EKB-11

#### Spark plug gap, mm (in.):

3RZ-FE engine 0.8 (0.031)

5VZ-FE engine 1.1 (0.043)



## 4RUNNER (1998)

Drive belt tension measured with Borroughs 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  $\pm \frac{25}{15}$

5VZ- FE engine

Generator belt

100 ± 20

Air conditioning compressor belt

100 ± 20

Power steering pump belt

100  $\pm \frac{20}{15}$

Oil grade:

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

Recommended oil viscosity (SAE):

### ENGINE LUBRICATION

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

3RZ- FE engine

With filter 5.4 (5.7, 4.8)

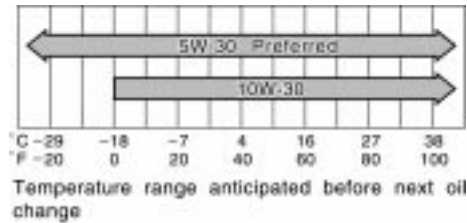
Without filter 4.7 (5.0, 4.1)

5VZ- FE engine

With filter 5.2 (5.5, 4.6)

Without filter 4.9 (5.2, 4.3)

## 4RUNNER (1998)



OIL05U

### 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

Open voltage\* at 20°C (68°F):

12.6—12.8 V Fully charged

12.2—12.4 V Half charged

11.8—12.0 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.):

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:

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)



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### 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:

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 sys-

tem

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

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### Tires

#### BRAKES

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

75 (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

Tire size	Tire pressure kPa (kgf/cm <sup>2</sup> or bar, psi)		Wheel size
	Front	Rear	
P265/70R16	220 (2.2, 32)	220 (2.2, 32)	7J $\frac{1}{2}$ 16*1 7JJ $\frac{1}{2}$ 16*2
P225/75R15	200 (2.0, 29)	200 (2.0, 29)	7J $\frac{1}{2}$ 15*1 7JJ $\frac{1}{2}$ 15*2

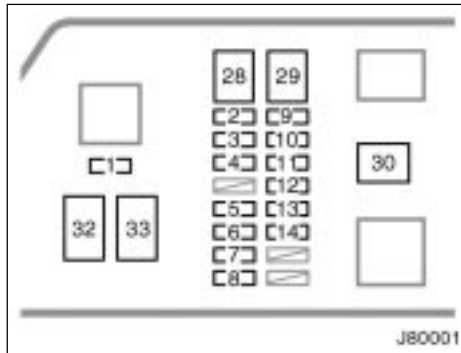
**Wheel nut torque, N·m (kgf·m, ft·lbf):**

110 (11.5, 83)

1: Vehicles with steel wheels

2: Vehicles with aluminum wheel

**Fuses**

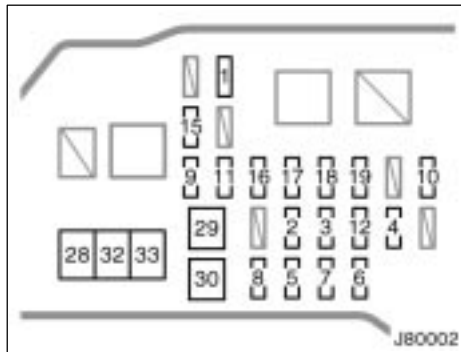


**Engine compartment (U.S.A.)**

**Fuses (type A)**

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

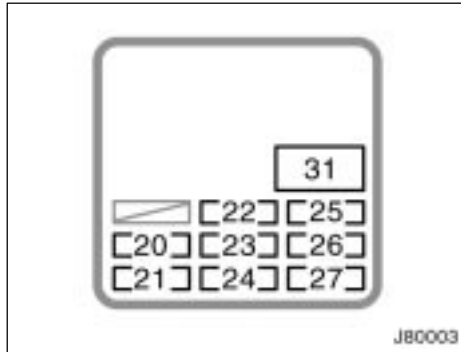
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### Engine compartment (Canada)

- 7. **HORN 15 A:** Horns, emergency flashers
- 8. **DOME 15 A:** Interior lights, personal lights, luggage compartment light, clock, car audio system
- 9. **TAIL 10 A:** Tail lights, parking lights, license plate lights
- 10. **STA 7.5 A:** Starting system
- 11. **A.C 10 A:** Air conditioning control system
- 12. **RR HTR 10 A:** Rear air conditioning control system
- 13. **HEAD(RH) 10 A:** Right-hand headlight





**Instrument panel**

- |   |  |
|---|--|
| <p><b>14. HEAD(LH) 10 A:</b> Left-hand headlight</p> <p><b>15. DRL 7.5 A:</b> Daytime running light system</p> <p><b>16. HEAD (LO RH) 10 A:</b> Right-hand headlight(low beam)</p> <p><b>17. HEAD (LO LH) 10 A:</b> Left-hand headlight(low beam)</p> <p><b>18. HEAD (HI RH) 10 A:</b> Right-hand headlight(high beam)</p> <p><b>19. HEAD (HI LH) 10 A:</b> Left-hand headlight(high beam)</p> <p><b>20. ACC 15 A:</b> Car audio system, power antenna, clock, power rear view mirror control</p> | <p><b>21. ECU-B 7.5 A:</b> SRS airbag warning light</p> <p><b>22. 4WD 20 A:</b> A.D.D. control system, four-wheel drive control system, rear differential lock system</p> <p><b>23. TURN 10 A:</b> Turn signals lights, emergency flashers</p> <p><b>24. GAUGE 10 A:</b> Gauges and meters, back window defogger, daytime running light system, air conditioning system, electric moon roof</p> <p><b>25. ECU-IG 10 A:</b> cruise control system, anti-lock brake system, electronically controlled automatic transmission system, power antenna</p> <p><b>26. WIPER 20 A:</b> windshield wipers and washer, back window wiper</p> |
|---|--|
- 27. IGN 7.5 A:** SRS airbag system, multiport fuel injection system / sequential multiport fuel injection system, discharge warning light

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### Fuses (type B)

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

### Fuses (type C)

- 32. **ABS 60 A:** Anti-lock brake system
- 33. **ALT 100 A:** Charging system



**TOYOTA**

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