

SECTION 8

SPECIFICATIONS

Specifications

Dimensions and weights 392

Engine 393

Fuel 393

Service specifications 393

Tires 396

Fuses 397



'04 4Runner_U (L/O 0409)

Dimensions and weights

Overall length	mm (in.)	4800 (189.0)
Overall width	mm (in.)	1875 (73.8)
Overall height* ¹	mm (in.)	1820 (71.7)* ² or 3, 4 1765 (69.5)* ² , 5 1760 (69.3)* ³ , 5 1755 (69.1)* ² 1750 (68.9)* ³ 1810 (71.3)* ² or 3, 4, 6 1750 (68.9)* ² or 3, 5, 6 1740 (68.5)* ² or 3, 6
Wheelbase	mm (in.)	2790 (109.8)
Front tread	mm (in.)	1575 (62.0)
Rear tread	mm (in.)	1575 (62.0)
Vehicle capacity weight (occupants + luggage)	kg (lb.)	431 (950)* ⁷ 476 (1050)* ⁸
Luggage compartment load capacity	kg (lb.)	91 (200)* ⁷ 0 (0)* ⁸

*¹: Unladen vehicle

*²: With two-wheel drive models

*³: With four-wheel drive models

*⁴: With roof rails

*⁵: With rear spoiler

*⁶: With rear height control air suspension

*⁷: With 5 occupants

*⁸: With 7 occupants

Towing capacity (trailer weight + cargo weight), kg (lb.):

For weight carrying hitch 2268 (5000)

Also for weight distributing hitch

2UZ-FE engine only

Two-wheel drive models

3311 (7300)

Four-wheel drive models

3175 (7000)

'04 4Runner_U (L/O 0409)

Engine

Model:

1GR-FE and 2UZ-FE

Type:

1GR-FE engine

6 cylinder V type, 4 cycle, gasoline

2UZ-FE engine

8 cylinder V type, 4 cycle, gasoline

Bore and stroke, mm (in.):

1GR-FE engine

94.0 × 95.0 (3.70 × 3.74)

2UZ-FE engine

94.0 × 84.0 (3.70 × 3.31)

Displacement, cm³ (cu. in.):

1GR-FE engine 3956 (241.4)

2UZ-FE engine 4664 (284.6)

Fuel

Fuel type:

Unleaded gasoline, Octane Rating 87 (Research Octane Number 91) or higher. For improved vehicle performance, the use of premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher is recommended.

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

87 (23.0, 19.1)

Service specifications

ENGINE

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

1GR-FE engine

Intake 0.15—0.25 (0.006—0.010)

Exhaust 0.29—0.39 (0.011—0.015)

2UZ-FE engine

Intake 0.15—0.25 (0.006—0.010)

Exhaust 0.25—0.35 (0.010—0.014)

Spark plug type:

1GR-FE engine

DENSO K20HR-U11

NGK LFR6C11

2UZ-FE engine

DENSO SK20R11

NGK IFR6A11

Spark plug gap, mm (in.):

1.1 (0.043)

ENGINE LUBRICATION

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

1GR-FE engine

With filter 5.2 (5.5, 4.6)

Without filter 4.9 (5.2, 4.3)

2UZ-FE engine

With filter 6.2 (6.5, 5.5)

Without filter 5.7 (6.0, 5.0)

'04 4Runner_U (L/O 0409)

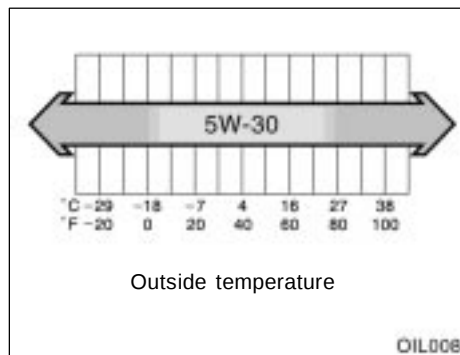
"Toyota Genuine Motor Oil" is used in your Toyota vehicle. Use Toyota approved "Toyota Genuine Motor Oil" or equivalent to satisfy the following grade and viscosity.

Oil grade:

API grade SL "Energy-Conserving" or ILSAC multigrade engine oil

Recommended oil viscosity:

SAE 5W-30



Please contact your Toyota dealer for further details.

COOLING SYSTEM

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

1GR-FE engine 9.8 (10.4, 8.6)

2UZ-FE engine 12.3 (13.0, 10.8)

Coolant type:

"Toyota Super Long Life Coolant" is used in your Toyota vehicle at factory fill. In order to avoid technical problems, only use "Toyota Super Long Life Coolant" or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology. (Coolant with long-life hybrid organic acid technology is a combination of low phosphates and organic acids.)

Do not use plain water alone.

Please contact your Toyota dealer for further details.

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.

AUTOMATIC TRANSMISSION (4-speed)

Fluid capacity (drain and refill),

L (qt., Imp. qt.):

Up to 2.0 (2.1, 1.8)

Fluid type:

Toyota Genuine ATF Type T-IV

Change automatic transmission fluid only as necessary.

Generally, it is necessary to change automatic transmission fluid only if your vehicle is driven under one of the Special Operating Conditions listed in your "Scheduled Maintenance Guide" or "Owner's Manual Supplement". When changing the automatic transmission fluid, use only "Toyota Genuine ATF Type T-IV" (ATF JWS3309 or NWS6500) to aid in assuring optimum transmission performance.

Notice: Using automatic transmission fluid other than "Toyota Genuine ATF Type T-IV" may cause deterioration in shift quality, locking up of your transmission accompanied by vibration, and ultimately damage the automatic transmission of your vehicle.

Please contact your Toyota dealer for further details.

'04 4Runner_U (L/O 0409)

AUTOMATIC TRANSMISSION (5- speed)

Fluid capacity (drain and refill),
L (qt., Imp. qt.):
Up to 3.0 (3.2, 2.6)

Fluid type:

Toyota Genuine ATF WS

Change automatic transmission fluid only
as necessary.

Generally, it is necessary to change
automatic transmission fluid only if your
vehicle is driven under one of the Special
Operating Conditions listed in your
“Scheduled Maintenance Guide” or
“Owner’s Manual Supplement”. When
changing the automatic transmission fluid,
use only “Toyota Genuine ATF WS” to aid
in assuring optimum transmission
performance.

**Notice: Using automatic transmission
fluid other than “Toyota Genuine ATF
WS” may cause deterioration in shift
quality, locking up of your transmission
accompanied by vibration, and ultimate-
ly damage the automatic transmission
of your vehicle.**

Please contact your Toyota dealer for fur-
ther details.

TRANSFER

Oil capacity, L (qt., Imp. qt.):
1.4 (1.5, 1.2)

Oil type:

Hypoid gear oil API GL-5

Recommended oil viscosity:
SAE 75W-90

DIFFERENTIAL (1GR-FE engine)

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

Two-wheel drive models
3.05 (3.2, 2.7)

Four-wheel drive models
Front 1.5 (1.6, 1.3)
Rear 3.05 (3.2, 2.7)

Oil type:

Hypoid gear oil API GL-5

Recommended oil viscosity:
Front
SAE 75W-90

Rear
Above -18°C (0°F)
SAE 90
Below -18°C (0°F)
SAE 80W or 80W-90

DIFFERENTIAL (2UZ-FE engine)

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

Two-wheel drive models
3.05 (3.2, 2.7)

Four-wheel drive models
Front 1.4 (1.5, 1.2)
Rear 3.05 (3.2, 2.7)

Oil type:

Hypoid gear oil API GL-5

Recommended oil viscosity:

Above -18°C (0°F)
SAE 90
Below -18°C (0°F)
SAE 80W or 80W-90

CHASSIS LUBRICATION

Propeller shafts:

Spiders and slide yokes
Lithium base chassis grease, NLGI
No.2

BRAKES

Minimum pedal clearance when depressed with the force of 490 N (50 kgf, 110 lbf) with the engine running, mm (in.):
55 (2.2)

Pedal free play, mm (in.):
1—6 (0.04—0.24)

Pad wear limit, mm (in.):
1.0 (0.04)

Lining wear limit, mm (in.):
1.0 (0.04)

Parking brake adjustment when depressed with the force of 294 N (30 kgf, 66.1 lbf):
5—7 clicks

Fluid type:
SAE J1703 or FMVSS No.116 DOT 3

STEERING

Wheel free play:
Less than 30 mm (1.2 in.)

Power steering fluid type:
Automatic transmission fluid DEXRON®II or III

Tires

Tire size, cold tire inflation pressure and wheel size:

Tire size	Cold tire inflation pressure kPa (kgf/cm ² or bar, psi)		Wheel size
	Front	Rear	
P265/70R16 111S	220 (2.2, 32)	220 (2.2, 32)	16 × 7J ^{*1} 16 × 7JJ ^{*2}
P265/65R17 110S	220 (2.2, 32)	220 (2.2, 32)	17 × 7 1/2JJ

*1: Vehicles with steel wheels

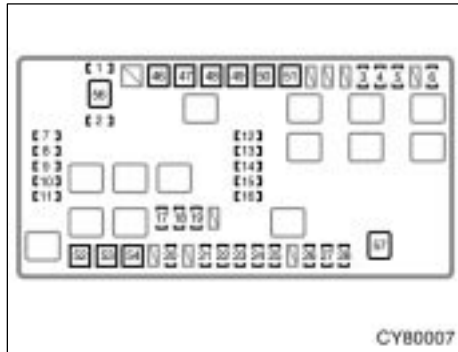
*2: Vehicles with aluminum wheels

NOTE: For a complete information on tires (e.g. replacing tires or replacing wheels), see “Checking tire inflation pressure” through “Aluminum wheel precautions”, pages 370 through 377 in Section 7- 2.

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

110 (11.5, 83)

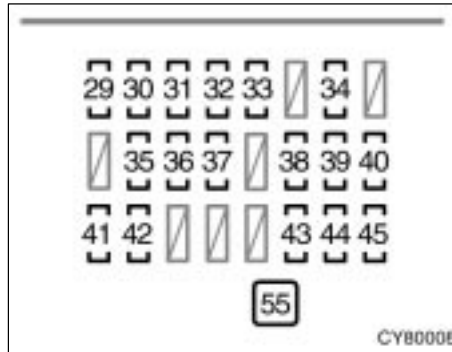
Fuses



Engine compartment

Fuses (type A)

1. **SPARE 10 A:** Spare fuse
2. **SPARE 15 A:** Spare fuse
3. **STOP 10 A:** Stop/tail lights, high mounted stoplight, shift lock control system, anti-lock brake system, traction control system (two-wheel drive models), active traction control system (four-wheel drive models), vehicle stability control system, rear height control air suspension, multiport fuel injection system/sequential multiport fuel injection system, trailer brake controller, trailer lights (tail lights)



Instrument panel

4. **AC115V INV 15 A:** AC inverter
5. **FR FOG 15 A:** Front fog lights
6. **OBD 7.5 A:** On-board diagnosis system
7. **HEAD (LO RH) 10 A:** Right-hand headlight (low beam)
8. **HEAD (LO LH) 10 A:** Left-hand headlight (low beam)
9. **HEAD (HI RH) 10 A:** Right-hand headlight (high beam)
10. **HEAD (HI LH) 10 A:** Left-hand headlight (high beam)

11. **EFI NO.2 10 A:** Multiport fuel injection system/sequential multiport fuel injection system
12. **HEATER NO.2 7.5 A:** Air conditioning system
13. **AIRSUS NO.2 10 A:** Rear height control air suspension
14. **SEAT HEATER 25 A:** Seat heaters
15. **DEFOG 30 A:** Back window defogger, multiport fuel injection system/sequential multiport fuel injection system
16. **MIR HEATER 10 A:** Outside rear view mirror heater
17. **DOME 10 A:** Interior light, personal lights, wireless remote control system, door courtesy lights, rear seat audio system, gauge and meter, vanity lights, instrument panel lights, running board lights, multiplex communication system
18. **RADIO NO.1 20 A:** Audio system, navigation system
19. **ECU-B 10 A:** Anti-lock brake system, navigation system, traction control system (two-wheel drive models), active traction control system (four-wheel drive models), vehicle stability control system, air conditioning system, multiplex communication system, theft deterrent system

'04 4Runner_U (L/O 0409)

- 20. ALT-S 7.5 A:** Charging system
- 21. HORN 10 A:** Horns
- 22. A/F HEATER 15 A:** A/F sensor
- 23. TRN-HAZ 15 A:** Turn signal lights, emergency flashers
- 24. ETCS 10 A:** Multiport fuel injection system/sequential multiport fuel injection system
- 25. EFI 20 A:** Multiport fuel injection system/sequential multiport fuel injection system
- 26. DR/LCK 20 A:** Power door lock system
- 27. TOWING 30 A:** Towing converter
- 28. RADIO NO.2 20 A:** Audio system
- 29. IGN 10 A:** Multiport fuel injection system/sequential multiport fuel injection system, anti-lock brake system, traction control system (two-wheel drive models), active traction control system (four-wheel drive models), vehicle stability control system, stop light, meter and gauge
- 30. SRS 10 A:** SRS airbag system
- 31. GAUGE 7.5 A:** Meter and gauge
- 32. STA NO.2 7.5 A:** Multiport fuel injection system/sequential multiport fuel injection system
- 33. FR WIP-WSH 30 A:** Windshield wipers and washer
- 34. 4WD 20 A:** Four-wheel drive control system
- 35. D P/SEAT 30 A:** Driver's power seat
- 36. P P/SEAT 30 A:** Front passenger's power seat
- 37. PWR OUTLET 15 A:** Power outlets
- 38. RR WSH 15 A:** Back window washer, multiplex communication system
- 39. ECU-IG 10 A:** Shift lock control system, power windows, anti-lock brake system, traction control system (two-wheel drive models), active traction control system (four-wheel drive models), vehicle stability control system, electric moon roof, multiplex communication system, theft deterrent system, rear height control air suspension, tire pressure warning system
- 40. IG1 15 A:** Anti-lock brake system, traction control system (two-wheel drive models), active traction control system (four-wheel drive models), vehicle stability control system, air conditioning system, charging system, back window defogger, back-up lights, turn signal lights, emergency flashers, seat heaters, AC inverter, instrument panel light control, auto anti-glare inside rear view mirror, SRS airbag system
- 41. STA 7.5 A:** No circuit
- 42. SECU/HORN 10 A:** Theft deterrent system
- 43. TAIL 10 A:** Tail lights, license plate lights, parking lights, instrument panel light control, multiport fuel injection system/sequential multiport fuel injection system, instrument panel lights, meter and gauge, glove box light
- 44. ACC 7.5 A:** Power outlets, outside rear view mirrors, audio system, navigation system, rear seat audio system, shift lock control system, instrument panel lights
- 45. CIG 10 A:** No circuit

Fuses (type B)

- 46. AIRSUS 50 A:** Rear height control air suspension
- 47. AM1 50 A:** All components in "ACC", "CIG", "IG1", "ECU-IG", "FR WIP-WSH", "RR WIP", "RR-WSH", "4WD", and "STA" fuses
- 48. TOWING BRK 30 A:** Trailer brake controller
- 49. J/B 50 A:** All components in "PWR OUTLET", "D P/SEAT", "P P/SEAT", "POWER", "TAIL" and "SECU/HORN" fuses
- 50. BATT CHG 30 A:** Trailer sub battery
- 51. TOWING 40 A:** Trailer lights (tail lights)
- 52. ABS MTR 40 A:** Anti-lock brake system, traction control system (two-wheel drive models), active traction control system (four-wheel drive models), vehicle stability control system
- 53. AM2 30 A:** Starter system, "IGN", "GAUGE", "STA NO.2" and "SRS" fuses
- 54. ABS SOL 50 A:** Anti-lock brake system, traction control system (two-wheel drive models), active traction control system (four-wheel drive models), vehicle stability control system

- 55. POWER 30 A:** Power windows, electric moon roof

Fuses (type C)

- 56. ALT 140 A:** All components in "AM2", "ALT-S", "DR/LCK", "TRN-HAZ", "HORN", "RADIO NO.2", "EFI", "TOWING", "ABS MTR", "ABS SOL", "HEATER" and "ETCS" fuses
- 57. HEATER 60 A:** Air conditioning system

'04 4Runner_U (L/O 0409)