

SECTION 8

SPECIFICATIONS

Specifications

Dimensions and weights 392

Engine 393

Fuel 393

Service specifications 393

Tires 397

Fuses 398



'06 Rav4_U (L/O 0601)

Dimensions and weights

Overall length	mm (in.)	4570 (179.9)*1
		4575 (180.1)*2
		4580 (180.3)*3
		4600 (181.1)*4
Overall width	mm (in.)	1815 (71.5)
		1855 (73.0)*5
Overall height*6	mm (in.)	1685 (66.3)
		1690 (66.5)*7
		1745 (68.7)*8
		1755 (69.1)*7, 8
Wheelbase	mm (in.)	2660 (104.7)
Front tread	mm (in.)	1560 (61.4)
Rear tread	mm (in.)	1560 (61.4)
Vehicle capacity weight (occupants + luggage)	kg (lb.)	375 (825)
		525 (1155)*7
Towing capacity (trailer weight + cargo weight)	kg (lb.)	680 (1500)*9
		907 (2000)*10, 11
		1588 (3500)*10, 12

- *1: 215/70R16 tires
- *2: 225/65R17 tires
- *3: 235/55R18 tires
- *4: With spare tire cover
- *5: With over fender
- *6: Unladen vehicle
- *7: With third seat
- *8: With roof rails
- *9: 2.4 L 4- cylinder (2AZ- FE) engine
- *10: 3.5 L V6 (2GR- FE) engine
- *11: Without towing package
- *12: With towing package

'06 Rav4_U (L/O 0601)

Engine

Model:

2AZ-FE and 2GR-FE

Type:

2AZ-FE engine

4 cylinder in line, 4 cycle, gasoline

2GR-FE engine

6 cylinder V type, 4 cycle, gasoline

Bore and stroke, mm (in.):

2AZ-FE engine

88.5 × 96.0 (3.48 × 3.78)

2GR-FE engine

94.0 × 83.0 (3.70 × 3.27)

Displacement, cm³ (cu. in.):

2AZ-FE engine 2362 (144.1)

2GR-FE engine 3456 (210.9)

Fuel

Fuel type:

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

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

60 (15.9, 13.2)

Service specifications

ENGINE

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

2.4 L 4-cylinder (2AZ-FE) engine only

Intake 0.19—0.29 (0.007—0.011)

Exhaust 0.33—0.40 (0.013—0.016)

Spark plug type:

2.4 L 4-cylinder (2AZ-FE) engine

DENSO SK20R11

NGK IFR6A11

3.5 L V6 (2GR-FE) engine

DENSO FK20HR11

Spark plug gap, mm (in.):

1.1 (0.043)

NOTICE

3.5 L V6 (2GR-FE) engine—Use only above spark plugs. Do not adjust gaps for engine performance or smooth driveability.

'06 Rav4_U (L/O 0601)

ENGINE LUBRICATION

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

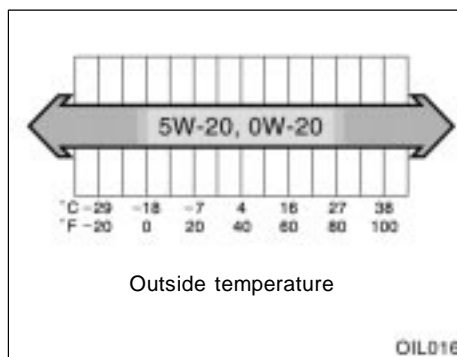
2.4 L 4-cylinder (2AZ-FE) engine		
With filter	4.3	(4.5, 3.8)
Without filter	4.1	(4.3, 3.6)
3.5 L V6 (2GR-FE) engine		
With filter	6.1	(6.4, 5.4)
Without filter	5.7	(6.0, 5.0)

"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.

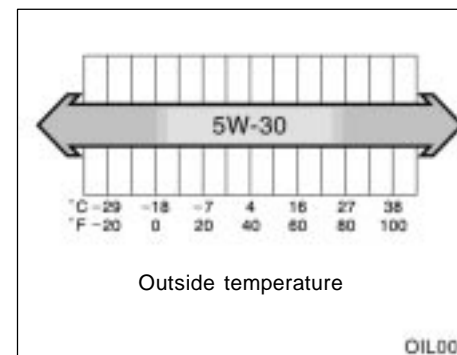
Oil grade:
ILSAC multigrade engine oil

Recommended oil viscosity:

2.4 L 4-cylinder (2AZ-FE) engine
SAE 5W-20 or 0W-20



3.5 L V6 (2GR-FE) engine
SAE 5W-30



Please contact your Toyota dealer for further details.

COOLING SYSTEM

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

2.4 L 4-cylinder (2AZ-FE) engine
6.8 (7.2, 5.9)

3.5 L V6 (2GR-FE) engine
Without towing package
8.9 (9.4, 7.8)

With towing package
9.3 (9.8, 8.2)

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 TRANSAXLE

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

Up to 3.5 (3.7, 3.1)

Fluid type:

Toyota Genuine ATF Type 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 Type WS" (ATF JWS3324 or NWS9638) to aid in assuring optimum transaxle performance.

Notice: Using automatic transmission fluid other than "Toyota Genuine ATF Type WS" 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.

TRANSFER (four-wheel drive models)

Oil capacity, L (qt., Imp. qt.):
0.5 (0.5, 0.4)

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-90

'06 Rav4_U (L/O 0601)

REAR DIFFERENTIAL (four-wheel drive models)

Oil capacity, L (qt., Imp. qt.):
0.5 (0.5, 0.4)

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-90

BRAKES

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

2.4 L 4-cylinder (2AZ-FE) engine

Without third seat 95 (3.7)

With third seat 120 (4.7)

3.5 L V6 (2GR-FE) engine 120 (4.7)

Pedal free play, mm (in.):

1—6 (0.04—0.24)

Pad wear limit, mm (in.):

1.0 (0.04)

Parking brake adjustment when pulled with
the force of 200 N (21 kgf, 45 lbf):

7—9 clicks

Fluid type:

SAE J1703 or FMVSS No.116 DOT 3

STEERING

Wheel free play:

Less than 30 mm (1.2 in.)

'06 Rav4_U (L/O 0601)

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	Spare	
215/70R16 99H	220 (2.2, 32)	220 (2.2, 32)	220 (2.2, 32)	16 × 6 1/2J
225/65R17 101H	220 (2.2, 32)	220 (2.2, 32)	220 (2.2, 32)	17 × 6 1/2J ^{*1} 17 × 7J ^{*2}
235/55R18 99H	220 (2.2, 32)	220 (2.2, 32)	220 (2.2, 32)	18 × 7 1/2J

*1: Steel wheels

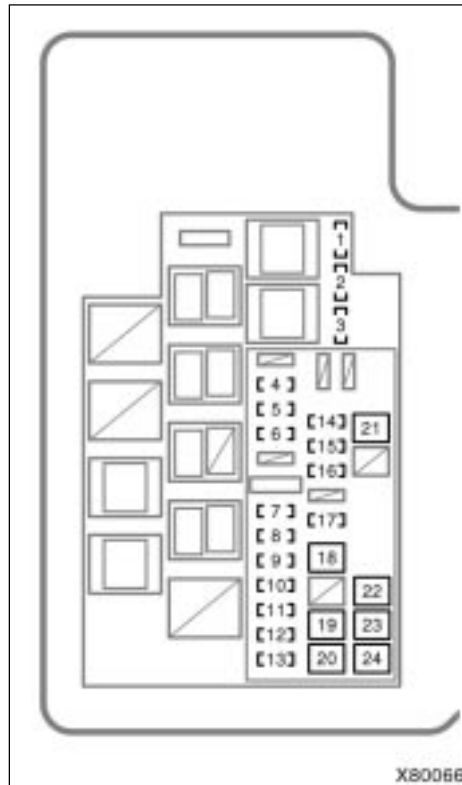
*2: Aluminum wheels

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

103 (10.5, 76)

NOTE: For a complete information on tires (e.g. replacing tires or replacing wheels), see “Checking tire inflation pressure” through “Aluminum wheel precautions”, pages 372 through 380 in Section 7-2.

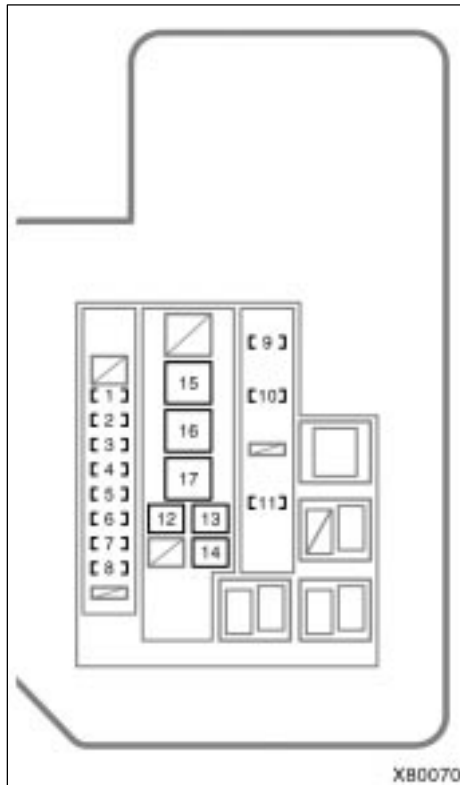
Fuses



ENGINE COMPARTMENT (No.1)

1. **SPARE 30 A:** Spare fuse
2. **SPARE 20 A:** Spare fuse
3. **SPARE 10 A:** Spare fuse
4. **ECU-B2 7.5 A:** Air conditioning system, power windows
5. **RSE 7.5 A:** Rear seat entertainment system
6. **STR LOCK 20 A:** No circuit
7. **RAD NO.1 20 A:** Audio system
8. **ECU-B 10 A:** Wireless remote control system, electric power steering system, main body ECU, power door lock, front passenger occupant classification system, clock, audio system, meters and gauges
9. **DOME 10 A:** Ignition switch light, interior light, vanity lights, luggage compartment light, front personal lights, foot lights
10. **HEAD LH 10 A:** Left-hand headlight (high beam)
11. **HEAD RH 10 A:** Right-hand headlight (high beam)
12. **HEAD LL 10 A:** Left-hand headlight (low beam)
13. **HEAD RL 10 A:** Right-hand headlight (low beam)
14. **AC INV 15 A:** AC inverter
15. **TOWING 30 A:** No circuit
16. **STV HTR 25 A:** No circuit
17. **DEICER 20 A:** Windshield wiper deicer
18. **HTR 50 A:** Air conditioning system
19. **PTC2 50 A:** No circuit
20. **PTC1 50 A:** No circuit
21. **HEAD MAIN 50 A:** "HEAD LL", "HEAD RL", "HEAD LH", "HEAD RH" fuses
22. **RDI 30 A (without towing package) or FAN2 50 A (with towing package):** Electric cooling fan
23. **CDS 30 A (without towing package) or FAN1 50 A (with towing package):** Electric cooling fan
24. **H-LP CLN 30 A:** No circuit

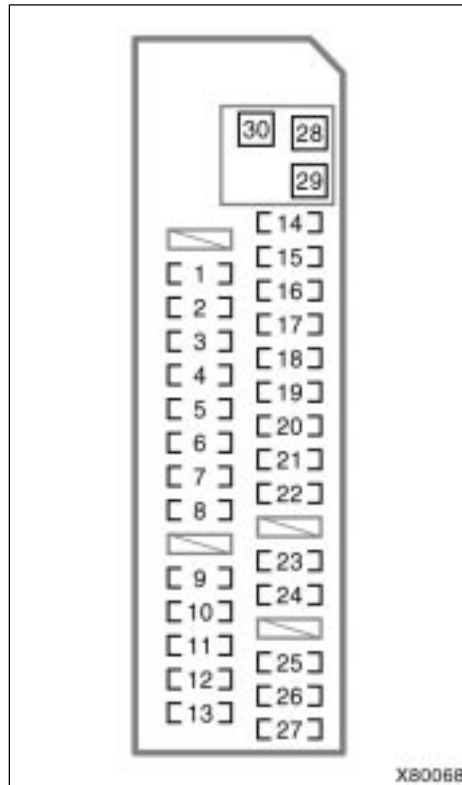
'06 Rav4_U (L/O 0601)



ENGINE COMPARTMENT (No.2)

1. **AMP 30 A:** Audio system
2. **AM2 30 A:** Starting system
3. **IG2 15 A:** Starting system, multiport fuel injection system/sequential multiport fuel injection system
4. **HAZ 10 A:** Emergency flashers
5. **ETCS 10 A:** Multiport fuel injection system/sequential multiport fuel injection system
6. **AM2-2 7.5 A:** No circuit
7. **EFI NO.1 10 A:** Multiport fuel injection system/sequential multiport fuel injection system
8. **EFI NO.2 10 A:** Multiport fuel injection system/sequential multiport fuel injection system
9. **EFI MAIN 20 A:** Multiport fuel injection system/sequential multiport fuel injection system, "EFI NO.1", "EFI NO.2" fuses
10. **HORN 10 A:** Horn
11. **A/F 20 A (3.5 L V6 [2GR-FE] engine only):** A/F sensor
12. **P/I 50 A:** "EFI MAIN", "HORN", "A/F" fuses
13. **ABS2 30 A:** Anti-lock brake system, traction control system, vehicle stability control system, "AUTO LSD" system, downhill assist control system, hill-start assist control system
14. **ABS1 50 A:** Anti-lock brake system, traction control system, vehicle stability control system, "AUTO LSD" system, downhill assist control system, hill-start assist control system
15. **EMPS 60 A:** Electric power steering system
16. **MAIN 80 A:** "HEAD MAIN", "ECU-B2", "RSE" fuses
17. **ALT 120 A (without towing package) or 140 A (with towing package):** "ABS 1", "ABS 2", "RDI", "CDS", "FAN1", "FAN2", "AC INV", "TOWING", "HTR", "DEICER" fuses

'06 Rav4_U (L/O 0601)



INSTRUMENT PANEL

1. **S-HTR 15 A:** Seat heaters
2. **WIP 25 A:** Windshield wipers
3. **RR WIP 15 A:** Rear window wiper
4. **WSH 15 A:** Windshield washer, rear window washer
5. **ECU-IG1 10 A:** Electric cooling fan, anti-lock brake system, traction control system, vehicle stability control system, "AUTO LSD" system, downhill assist control system, hill-start assist control system, active torque control 4WD system, tire pressure monitor system, automatic transmission shift lock system, air conditioning system, main body ECU, electric moon roof, stop/tail lights, windshield wiper de-icer, electric power steering system, clock, AC inverter
6. **ECU-IG2 10 A:** Air conditioning system, rear window defogger
7. **OBD 7.5 A:** On-board diagnosis system
8. **STOP 10 A:** Stop/tail lights, high mounted stoplight, automatic transmission shift lock system, multiport fuel injection system/sequential multiport fuel injection system, anti-lock brake system, traction control system, vehicle stability control system, "AUTO LSD" system, downhill assist control system, hill-start assist control system
9. **DOOR 25 A:** Main body ECU, power door lock system
10. **ACC-B 25 A:** "ACC", "CIG" fuses
11. **4WD 7.5 A:** Active torque control 4WD system
12. **FR FOG 15 A:** Front fog lights
13. **AM1 7.5 A:** Starting system
14. **TAIL 10 A:** Tail lights, parking lights, license plate light, front fog lights, rear side marker lights
15. **PANEL 7.5 A:** Clock, instrument panel lights, audio system
16. **GAUGE1 10 A:** Buck-up lights, charging system
17. **D FR DOOR 20 A:** Power window (front doors)
18. **RL DOOR 20 A:** Power window (rear left door)

'06 Rav4_U (L/O 0601)

- 19. RR DOOR 20 A:** Power window (rear right door)
- 20. S/ROOF 25 A:** Electric moon roof
- 21. CIG 15 A:** No circuit
- 22. ACC 7.5 A:** Audio system, power outlets, power rear view mirror control, automatic transmission shift lock system, main body ECU, clock, rear seat entertainment system
- 23. MIR HTR 10 A:** Outside rear view mirror heaters
- 24. PWR OUTLET 15 A:** Power outlets
- 25. RR FOG 10 A:** No circuit
- 26. IGN 7.5 A:** SRS airbag system, multiport fuel injection system/sequential multiport fuel injection system, front passenger occupant classification system, starting system
- 27. GAUGE2 7.5 A:** Meters and gauges
- 28. DEF 30 A:** Rear window defogger, "MIR HTR" fuses
- 29. P/SEAT 30 A:** Power seat
- 30. POWER 30 A:** Power windows

'06 Rav4_U (L/O 0601)