

Part 8

SPECIFICATIONS

- [Dimensions and weight](#)
- [Engine](#)
- [Fuel](#)
- [Service specifications](#)
- [Tires](#)
- [Fuses](#)

Dimensions and weight

		Sedan	Coupe	Wagon
Overall length	mm (in.)	4770 (187.8)	4770 (187.8)	4810 (189.4)
Overall width	mm (in.)	1770 (69.7)	1770 (69.7)	1770 (69.7)
Overall height	mm (in.)	1400 (55.1)* ¹	1395 (54.9)* ¹	1430 (56.3)* ³
		1415 (55.7)* ²	1410 (55.5)* ²	1450 (57.1)* ⁴
				1435 (56.5)* ⁵
				1455 (57.3)* ⁶
Wheelbase	mm (in.)	2620 (103.1)	2620 (103.1)	2620 (103.1)
Front tread	mm (in.)	1550 (61.0)	1550 (61.0)	1550 (61.0)
Rear tread	mm (in.)	1500 (59.1)	1500 (59.1)	1500 (59.1)
Vehicle capacity weight kg (lb.) (occupants + luggage)		410 (900)	410 (900)	495 (1095)* ⁷
				430 (945)* ⁸

*1: Unladen vehicle plus two occupants

*2: Unladen vehicle

*3: Unladen vehicle plus two occupants with 5S-FE engine

*4: Unladen vehicle with 5S-FE engine

*5: Unladen vehicle plus two occupants with 1MZ-FE engine

*6: Unladen vehicle with 1MZ-FE engine

*7: With third seat

*8: Without third seat

Engine

Model:

5S-FE and 1MZ-FE

Type:

5S-FE engine

4 cylinder in line, 4 cycle, gasoline

1MZ-FE engine

6 cylinder V type, 4 cycle, gasoline

Bore and stroke, mm (in.):

5S-FE engine

87.0 x 91.0 (3.43 x 3.58)

1MZ-FE engine

87.5 x 83.0 (3.44 x 3.27)

Displacement, cm³ (cu. in.):

5S-FE engine 2164 (132.0)

1MZ-FE engine 2995 (182.8)

Fuel

Fuel type:

5S-FE engine

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

1MZ-FE engine

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

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

70 (18.5, 15.4)

Service specifications

ENGINE

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

5S-FE engine

Intake 0.19—0.29 (0.007—0.011)

Exhaust 0.28—0.38 (0.011—0.015)

1MZ-FE engine

Intake 0.15—0.25 (0.006—0.010)

Exhaust 0.25—0.35 (0.010—0.014)

Spark plug type:

5S-FE engine

NIPPONDENSO PK20R11

NGK BKR6EP11

1MZ-FE engine

NIPPONDENSO PK20TR11

NGK BKR6EKP11

Spark plug gap, mm (in.):

1.1 (0.043)

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

5S-FE engine

With air conditioning

Generator belt 130 ± 10

Power steering pump belt 80 ± 20

Without air conditioning

Generator belt 95 ± 20

Power steering pump belt 80 ± 20

1MZ-FE engine

With air conditioning

Generator belt 115 ± 20

Power steering pump belt 115 ± 20

Without air conditioning

Generator belt 115 ± 20

Power steering pump belt 115 ± 20

ENGINE LUBRICATION

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

5S-FE engine

With filter 3.6 (3.8, 3.2)

Without filter 3.4 (3.6, 3.0)

1MZ-FE engine

With filter 4.7 (5.0, 4.1)

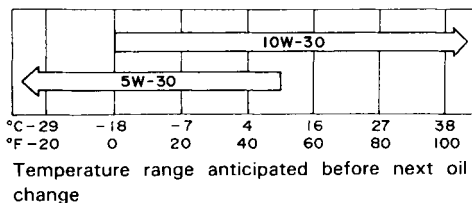
Without filter 4.5 (4.8, 4.0)

Oil grade:

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

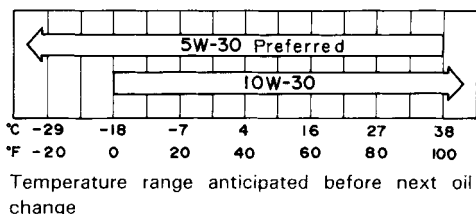
Recommended oil viscosity (SAE):

5S-FE engine



80040L02 U

1MZ-FE engine



80040-L03 U

COOLING SYSTEM

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

5S-FE engine 6.3 (6.7, 5.5)

1MZ-FE engine 9.3 (9.3, 8.2)

Coolant type:

With ethylene-glycol antifreeze

(Do not use alcohol type.)

BATTERY

—Maintenance type battery

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

1.260 Fully charged

1.160 Half charged

1.060 Discharged

—Non-Maintenance battery

Open voltage* at 20°C (68°F):

12.7V Fully charged

12.3V Half charged

11.9V 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 TRANSAXLE

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

2.6 (2.7 , 2.3)

Oil type:

Multipurpose gear oil API GL-4 or GL-5

Recommended oil viscosity:

SAE 75W-90

AUTOMATIC TRANSAXLE

Automatic transmission

Fluid capacity (drain and refill),

L (qt., Imp. qt.):

5S-FE engine Up to 2.5 (2.6, 2.2)

1MZ-FE engine Up to 3.5 (3.7, 3.1)

Fluid type:

Automatic transmission fluid

DEXRON®-II

Differential

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

5S-FE engine

1.6 (1.7, 1.4)

1MZ-FE engine

0.85 (0.9, 0.7)

Fluid type:

Automatic transmission fluid

DEXRON®-II

BRAKES

Minimum pedal clearance when depressed with the pressure of 490 N (590 kgf, 110 lbf) with the engine running, mm (in.):

70 (2.8)

Pedal freeplay, 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)

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

5—8 clicks

Pedal type parking brake adjustment when depressed with the pressure of 294 N (30 kgf, 66.1 lbf):

3—6 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 DEX-
RON® -II or -III

Tires

Tire size:

U.S.A.	5S-FE engined vehicles		1MZ-FE engined vehicles	
	Spare tire	Except spare tire	Spare tire	Except spare tire
Sedan	P195/70R14 90H	P195/70R14 90H	P205/65R15 92H* ¹ P205/65R15 92V* ²	P205/65R15 92H* ¹ P205/65R15 92V* ²
Coupe	P195/70R14 90H	P195/70R14 90H	P205/65R15 92H* ¹ P205/65R15 92V* ²	P205/65R15 92H* ¹ P205/65R15 92V* ²
Wagon without third seat	P195/70R14 90H	P195/70R14 90H	P205/65R15 92H	P205/65R15 92H
Wagon with third seat	T135/90R15	P195/70R14 90H	T145/80R16	P205/65R15 92H

*¹: Except SE grade models

*²: SE grade models

Canada	5S-FE engined vehicles		1MZ-FE engined vehicles	
	Spare tire	Except spare tire	Spare tire	Except spare tire
Sedan	T135/90R15 P195/70R14 90H	P195/70R14 90H	T145/80R16 P205/65R15 92H	P205/65R15 92H
Coupe	T135/90R15 P195/70R14 90H	P195/70R14 90H	T145/80R16 P205/65R15 92H	P205/65R15 92H
Wagon without third seat	T135/90R15 P195/70R14 90H	P195/70R14 90H	T145/80R16 P205/65R15 92H	P205/65R15 92H
Wagon with third seat	T135/90R15	P195/70R14 90H	T145/80R16	P205/65R15 92H

Tire pressure:

Normal driving

Conventional tire

Sedan and coupe

kPa (kgf/cm² or bar, psi)

	For all loads including full rated loads		For reduced loads (1 to 4 passengers)	
	Front	Rear	Front	Rear
P195/70R14 90H	210 (2.1, 30)	210 (2.1, 30)	210 (2.1, 30)	210 (2.1, 30)
P205/65R15 92H	220 (2.2, 32)	220 (2.2, 32)	200 (2.0, 29)	200 (2.0, 29)
P205/65R15 92V	220 (2.2, 32)	220 (2.2, 32)	220 (2.2, 32)	205 (2.05, 30)

Wagon

kPa (kgf/cm² or bar, psi)

	For all loads including full rated loads		For reduced loads (1 to 4 passengers)	
	Front	Rear	Front	Rear
P195/70R14 90H	220 (2.2, 32)	240 (2.4, 35)	210 (2.1, 30)	210 (2.1, 30)
P205/65R15 92H	220 (2.2, 32)	240 (2.4, 35)	200 (2.0, 29)	200 (2.0, 29)

Spare tire

Compact spare tire

kPa (kgf/cm² or bar, psi)

T135/90R15

420 (4.2, 60)

T145/80R16

420 (4.2, 60)

Others

Same as original tire

Trailer towing

kPa (kgf/cm² or bar, psi)

	5S-FE engined vehicles		1MZ-FE engined vehicles	
	Front	Rear	Front	Rear
Sedan and coupe	210 (2.1, 30)	210 (2.1, 30)	220 (2.2, 32)	220 (2.2, 32)
Wagon	220 (2.2, 32)	240 (2.4, 35)	220 (2.2, 32)	240 (2.4, 35)

When driving under the above vehicle load conditions at sustained high speeds above 160 km/h (100 mph), in countries where such speeds are permitted by law, inflate the front and rear tires to 240 kPa (2.4 kgf/cm² or bar, 35 psi) provided that it does not exceed the maximum cold tire pressure molded on the tire sidewall.

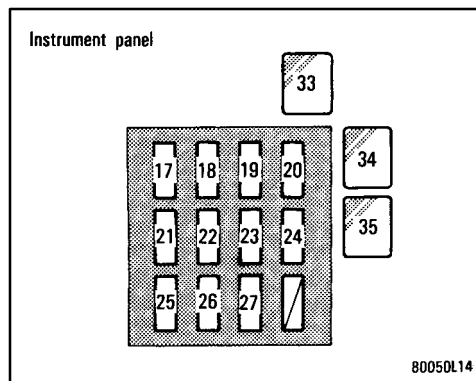
Wheel size:

P195/70R14 90H	14 x 5.5 JJ
P205/65R15 92H	15 x 6 JJ
P205/65R15 92V	15 x 6 JJ
T135/90R15	15 x 4 T
T145/80R16	16 x 4 T

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

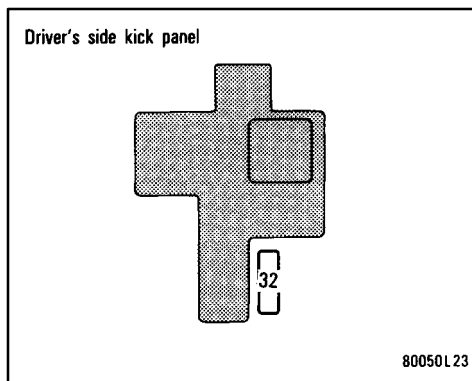
104 (10.5, 77)

Fuses

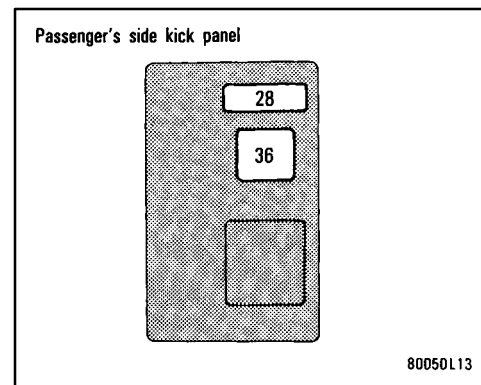


Fuses (type A)

- 1. HORN 10 A:** Horn
- 2. HEAD (LH) 15 A:** Left-hand headlight
- 3. ALT-S 7.5 A:** Charging system
- 4. HEAD (RH) 15 A:** Right-hand headlight
- 5. DOME 20 A:** Audio system, interior light, clock, ignition switch light, personal light, trunk light, luggage compartment light, vanity mirror light, electric moon roof
- 6. EFI 15 A:** Multiport fuel injection system/sequential multiport fuel injection system
- 7. AM2 30 A:** Multiport fuel injection system/sequential multiport fuel injection system, starting system



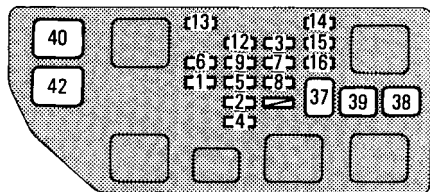
- 8. ECU-B 15 A:** Anti-lock brake system, daytime running light system, cruise control system
- 9. HAZ 10 A:** Emergency flasher
- 10. HEAD HI (LH) 15 A:** Left-hand headlight (high beam)
- 11. HEAD HI (RH) 15 A:** Right-hand headlight (high beam)
- 12. OBD 7.5 A:** On-board diagnosis system
- 13. SPARE 7.5 A:** Spare fuse
- 14. SPARE 15 A:** Spare fuse
- 15. SPARE 30 A:** Spare fuse
- 16. TEL 15 A:** No circuit



Fuses (type B)

- 17. ECU-IG 15 A:** Electronically controlled automatic transmission system, cruise control system, anti-lock brake system
- 18. GAUGE 10 A:** Gauges and meters, back-up lights, air conditioning control system, rear window defogger, service reminder indicators, daytime running light system, tilt steering
- 19. STOP 15 A:** Stop lights, cruise control system, anti-lock brake system, shift lock system
- 20. SEAT HTR 15 A:** No circuit

Engine compartment
(5S-FE engined vehicles for U.S.A.)



80050L15

21. WIPER 20 A: Windshield wipers and washer, rear window wipers and washer, air bag system

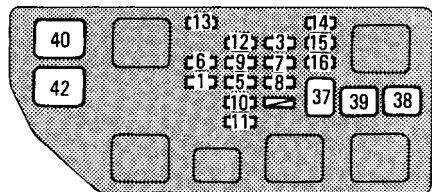
22. TURN 7.5 A: Turn signal lights

23. IGN 7.5 A: Multipoint fuel injection system/sequential multipoint fuel injection system, charging system, air bag system

24. CIG/RADIO 15 A: Audio system, daytime running light system, clock, cigarette lighter, air bag system, shift lock system

25. MIR. HTR 10 A: Outside rear view mirror heater

Engine compartment
(5S-FE engined vehicles for Canada)



80050L15

26. TAIL 15 A: Tail lights, parking lights, license plate lights, instrument panel lights, rear light failure warning system

27. SRS 7.5 A: SRS airbag system

28. A/C 10 A: Air conditioning control system

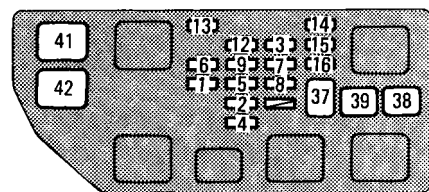
29. HEAD (LWR-RH) 15 A: Right-hand headlight (low beam)

30. HEAD (LWR-LH) 15 A: Left-hand headlight (low beam)

31. DRL 5 A: Daytime running light system

32. ST 10 A: Starting system

Engine compartment
(1MZ-FE engined vehicles for U.S.A.)



80050L15

Fuses (type C)

33. AM1 40 A: Starting system

34. P/W 30 A: Electric moon roof, power windows, tilt steering, power door lock controls, power back door lock control, power seat

35. DEFOG 40 A: Rear window defogger

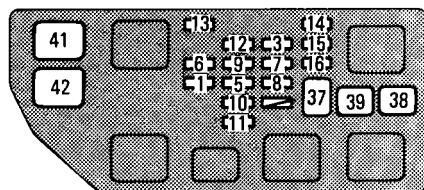
36. HTR 40 A: Air conditioning control system

37. MAIN NO. 1 40 A: Starting system

38. CDS 30 A: Electric cooling fan

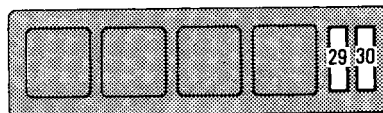
39. RDI 30 A: Electric cooling fan

Engine compartment
(1MZ-FE engined vehicles for Canada)



80050L15

Engine compartment
(for Canada)



80050L17

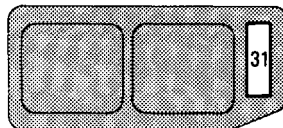
Fuses (type D)

40. ALT 100 A: Charging system

41. ALT 120 A: Charging system

42. A.B.S. 60 A: Anti-lock brake system

Engine compartment (for Canada)



80050L16