

# Forester

## SPECIFICATIONS

### 1. Forester

#### A: DIMENSION

Model			2.5 L	
			AWD	
			Non-turbo	Turbo
Overall length	mm (in)		4,485 (176.6)	
Overall width	mm (in)		1,735 (68.3)	
Total height (at C.W.)	mm (in)		1,590 (62.6)	1,585 (62.4)
Compartment	Head-room	Front	mm (in)	1,012 (39.8) 992 (39.0)*1
		Rear	mm (in)	998 (39.3) 938 (36.9)*1
	Leg room	Front	mm (in)	1,108 (43.6)
		Rear	mm (in)	856 (33.7)
	Shoulder room	Front	mm (in)	1,356 (53.4)
		Rear	mm (in)	1,361 (53.6)
Wheelbase	mm (in)		2,525 (99.4)	
Tread	Front	mm (in)	1,495 (58.9)	
	Rear	mm (in)	1,485 (58.5)	
Minimum road clearance	mm (in)		205 (8.07)	200 (7.87)

\*1: Model with sunroof

#### B: ENGINE

Model		2.5 L Non-turbo	2.5 L Turbo
Engine type		Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine	
Valve system mechanism	Method	SOHC	DOHC
	Number of valves	Intake 2/Exhaust 2	
Bore × stroke	mm (in)	99.5 × 79 (3.92 × 3.11)	
Displacement	cm <sup>3</sup> (cu in)	2,457 (149.94)	
Compression ratio		10.0±0.2	8.4±0.2
Ignition order		1 — 3 — 2 — 4	
Idling speed [at neutral position on MT, or "P" or "N" position on AT]	rpm	MT: 650±100 AT: 700±100	700±100
Maximum output	kW (HP)/rpm	129 (173)/6,000	172 (230)/5,600
Maximum torque	N·m (kgf·m, ft·lb)/rpm	226 (23.0, 166)/4,400	319 (32.5, 235)/3,600

#### C: ELECTRICAL

Model		2.5 L Non-turbo	2.5 L Turbo
Ignition timing/Idle speed	BTDC/rpm	MT: 10°±8°/650 AT: 15°±8°/700	17°±10°/700
Spark plug		NGK: FR5AP-11	NGK: ILFR6B
Generator		12 V — 90 A	12 V — 110 A
Battery		MT: 12 V — 48 AH (55D23L) AT: 12 V — 52 AH (75D23L)	

**D: TRANSMISSION**

Model		2.5 L Non-turbo		2.5 L Turbo		
Transmission		5MT	4AT	5MT	4AT	
Clutch type		DSPD	TCC	DSPD	TCC	
Gear ratio	1st	3.454	2.785	3.454	2.785	
	2nd	2.062	1.545	1.947	1.545	
	3rd	1.448	1.000	1.366	1.000	
	4th	1.088	0.694	0.972	0.694	
	5th	0.780	—	0.738	—	
	Rev.	3.333	2.272	3.333	2.272	
Reduction gear (Front)	First deceleration	Type	—	Helical	—	Helical
		Gear ratio	—	1.000	—	1.000
	Final deceleration	Type	Hypoid			
		Gear ratio	4.111	4.444		4.111
Reduction gear (Rear)	Transfer reduction	Type	Helical	—	Helical	—
		Gear ratio	1.000	—	1.000	—
	Final deceleration	Type	Hypoid			
		Gear ratio	4.111	4.444		4.111

5MT: 5-forward speeds with synchromesh and 1-reverse

4AT: Electronically controlled fully-automatic, 4-forward speeds and 1-reverse

DSPD: Dry Single Plate Diaphragm

TCC: Torque Converter Clutch

**E: STEERING**

Model		2.5 L Non-turbo		2.5 L Turbo	
Type		Rack and Pinion, Integral			
Turns, lock to lock		3.1		3.0	
Minimum turning diameter	m (ft)	Curb to curb	10.6 (34.8)		10.8 (35.4)
		Wall to wall	11.4 (37.4)		11.6 (38.1)

**F: SUSPENSION**

Front	Macpherson strut type independent suspension
Rear	Dual link strut type independent suspension

**G: BRAKE**

Model	2.5 X	2.5 XS, 2.5 XT, CROSS SPORTS 2.5 XT, L.L.Bean
Service brake system	Dual circuit hydraulic with vacuum suspension and power unit	
Front	Ventilated disc brake	
Rear	Drum brake	Disc brake
Parking brake	Mechanical on rear brakes	

**H: TIRE**

Wheel size	16 × 6 <sup>1</sup> / <sub>2</sub> JJ, 16 × 6 <sup>1</sup> / <sub>2</sub> J	17 × 7JJ
Tire size	P215/60R16 94H	P215/55R17 93H
Type	Steel belted radial, tubeless	

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### I: CAPACITY

Model			2.5 L Non-turbo		2.5 L Turbo	
Transmission			5MT	4AT	5MT	4AT
Fuel tank			ℓ (US gal, Imp gal)			
			60 (15.9, 13.2)			
Engine oil	Total capacity (Overhaul)		5.0 (5.3, 4.4)			
	Filling amount of engine oil	When replacing engine oil and oil filter	4.2 (4.4, 3.7)		4.3 (4.5, 3.8)	
		When replacing only engine oil	4.0 (4.2, 3.5)			
Transmission oil			ℓ (US qt, Imp qt)			
			3.5 (3.7, 3.1)	—	3.5 (3.7, 3.1)	—
ATF			ℓ (US qt, Imp qt)			
			—	9.3 (9.8, 8.2)	—	9.3 (9.8, 8.2)
Front differential gear oil			ℓ (US qt, Imp qt)			
			—	1.2 (1.3, 1.1)	—	1.2 (1.3, 1.1)
Rear differential gear oil			ℓ (US qt, Imp qt)			
			0.8 (0.8, 0.7)			
Power steering fluid			ℓ (US qt, Imp qt)			
			0.7 (0.7, 0.6)			
Engine coolant			ℓ (US qt, Imp qt)			
			Approx. 6.9 (Approx. 7.3, 6.1)	Approx. 6.8 (Approx. 7.2, 6.0)	Approx. 7.4 (Approx. 7.8, 6.5)	Approx. 7.3 (Approx. 7.7, 6.4)

**J: WEIGHT****1. FOR U.S. MODEL**

Option code★ 1			U5ZK		U5FK		U6ZK		U6FK	
Engine type			2.5 L Non-turbo							
Grade			2.5 X							
Transmission			5MT	4AT	5MT	4AT	5MT	4AT	5MT	4AT
Vehicle weight (C.W.)	Front axle	kg (lb)	796 (1,755)	814 (1,795)	789 (1,740)	807 (1,779)	796 (1,755)	814 (1,795)	789 (1,740)	807 (1,779)
	Rear axle	kg (lb)	639 (1,410)	639 (1,410)	632 (1,394)	632 (1,394)	639 (1,410)	639 (1,410)	632 (1,394)	632 (1,394)
	Total	kg (lb)	1,435 (3,165)	1,453 (3,205)	1,421 (3,133)	1,439 (3,173)	1,435 (3,165)	1,453 (3,205)	1,421 (3,133)	1,439 (3,173)
Total axle weight (G.A.W.)	Front axle	kg (lb)	930 (2,050)	930 (2,050)	930 (2,050)	930 (2,050)	930 (2,050)	930 (2,050)	930 (2,050)	930 (2,050)
	Rear axle	kg (lb)	998 (2,200)	998 (2,200)	998 (2,200)	998 (2,200)	998 (2,200)	998 (2,200)	998 (2,200)	998 (2,200)
Total vehicle weight (G.V.W.)		kg (lb)	1,882 (4,150)	1,882 (4,150)	1,882 (4,150)	1,882 (4,150)	1,882 (4,150)	1,882 (4,150)	1,882 (4,150)	1,882 (4,150)
Option	Aluminum wheel		—		○		—		○	
	Leather seats and leather door trim center decoration		—		—		—		—	
	Front fog light		○		○		○		○	
	Cruise control		○		○		○		○	
	Leather package base		—		—		—		—	
	Sunroof		—		—		—		—	
	VDC+VTD		—		—		—		—	
	Seat heater		—		—		—		—	
	Fully automatic air conditioner		—		—		—		—	
	Manual air conditioner		○		○		○		○	
	Cold zone package		—		—		—		—	
	Side airbag		○		○		○		○	
	De-icer		—		—		—		—	

★ 1: For option codes, refer to the ID section. <Ref. to ID-4, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

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## SPECIFICATIONS

Option code★1			U5SW		U5SL		U5SM		U6SW	
Engine type			2.5 L Non-turbo							
Grade			2.5 XS							
Transmission			5MT	4AT	5MT	4AT	5MT	4AT	5MT	4AT
Vehicle weight (C.W.)	Front axle	kg (lb)	796 (1,755)	814 (1,795)	795 (1,753)	815 (1,797)	789 (1,740)	810 (1,785)	789 (1,740)	810 (1,785)
	Rear axle	kg (lb)	644 (1,420)	644 (1,420)	645 (1,422)	645 (1,422)	635 (1,400)	635 (1,400)	635 (1,400)	635 (1,400)
	Total	kg (lb)	1,440 (3,175)	1,458 (3,215)	1,440 (3,175)	1,460 (3,219)	1,424 (3,140)	1,444 (3,185)	1,424 (3,140)	1,444 (3,185)
Total axle weight (G.A.W.)	Front axle	kg (lb)	930 (2,050)	930 (2,050)	930 (2,051)	930 (2,051)	930 (2,050)	930 (2,050)	930 (2,050)	930 (2,050)
	Rear axle	kg (lb)	998 (2,200)	998 (2,200)	1,000 (2,205)	1,000 (2,205)	998 (2,200)	998 (2,200)	998 (2,200)	998 (2,200)
Total vehicle weight (G.V.W.)		kg (lb)	1,882 (4,150)	1,882 (4,150)	1,880 (4,145)	1,880 (4,145)	1,882 (4,150)	1,882 (4,150)	1,882 (4,150)	1,882 (4,150)
Option	Aluminum wheel		○		○		○		○	
	Leather seats and leather door trim center decoration		—		—		—		—	
	Front fog light		○		○		○		○	
	Cruise control		○		○		○		○	
	Leather package base		○		○		○		○	
	Sunroof		○		○		—		○	
	VDC+VTD		—		—		—		—	
	Seat heater		—		○		○		—	
	Fully automatic air conditioner		○		○		○		○	
	Manual air conditioner		—		—		—		—	
	Cold zone package		—		○		○		—	
	Side airbag		○		○		○		○	
	De-icer		—		○		○		—	

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## SPECIFICATIONS

Option code★ 1		U6SL		U6SM		U5TL	U6TL	U4TL		U483	U484	
Engine type		2.5 L Non-turbo						2.5 L Turbo		2.5 L Turbo		
Grade		2.5 XS				L.L.Bean		2.5 XT		CROSS SPORTS 2.5XT		
Transmission		5MT	4AT	5MT	4AT	4AT		5MT	4AT	5MT	4AT	
Vehicle weight (C.W.)	Front axle	kg (lb)	795 (1,753)	815 (1,797)	789 (1,740)	810 (1,785)	814 (1,795)	814 (1,795)	830 (1,830)	880 (1,940)	830 (1,830)	880 (1,940)
	Rear axle	kg (lb)	645 (1,422)	645 (1,422)	635 (1,400)	635 (1,400)	651 (1,435)	651 (1,435)	650 (1,433)	649 (1,432)	650 (1,433)	649 (1,432)
	Total	kg (lb)	1,440 (3,175)	1,460 (3,219)	1,424 (3,140)	1,444 (3,185)	1,465 (3,230)	1,465 (3,230)	1,480 (3,263)	1,529 (3,372)	1,480 (3,263)	1,529 (3,372)
Total axle weight (G.A.W.)	Front axle	kg (lb)	930 (2,051)	930 (2,051)	930 (2,050)	930 (2,050)	930 (2,050)	930 (2,050)	990 (2,183)	993 (2,190)	990 (2,183)	993 (2,190)
	Rear axle	kg (lb)	1,000 (2,205)	1,000 (2,205)	998 (2,200)	998 (2,200)	998 (2,200)	998 (2,200)	1,020 (2,249)	1,020 (2,250)	1,020 (2,249)	1,020 (2,250)
Total vehicle weight (G.V.W.)		kg (lb)	1,880 (4,145)	1,880 (4,145)	1,882 (4,150)	1,882 (4,150)	1,882 (4,150)	1,882 (4,150)	1,960 (4,322)	1,959 (4,320)	1,960 (4,322)	1,959 (4,320)
Option	Aluminum wheel		○		○		○		○		○	
	Leather seats and leather door trim center decoration		—		—		○		○		○	
	Front fog light		○		○		○		○		○	
	Cruise control		○		○		○		○		○	
	Leather package base		○		○		○		○		○	
	Sunroof		○		—		○		○		○	
	VDC+VTD		—		—		—		—		—	
	Seat heater		○		○		○		○		○	
	Fully automatic air conditioner		○		○		○		○		○	
	Manual air conditioner		—		—		—		—		—	
	Cold zone package		○		○		○		○		○	
	Side airbag		○		○		○		○		○	
	De-icer		○		○		○		○		○	

★ 1: For option codes, refer to the ID section. <Ref. to ID-4, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

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## SPECIFICATIONS

### 2. FOR CANADA MODEL

Option code★ 1			COZK		COTL		COSL		COSM	
Engine type			2.5 L Non-turbo							
Grade			2.5 X		2.5 XS					
Transmission			5MT	4AT	5MT	4AT	5MT	4AT	5MT	4AT
Vehicle weight (C.W.)	Front axle	kg (lb)	795 (1,753)	815 (1,797)	795 (1,753)	815 (1,797)	795 (1,753)	815 (1,797)	790 (1,742)	810 (1,786)
	Rear axle	kg (lb)	640 (1,411)	640 (1,411)	650 (1,433)	650 (1,433)	645 (1,422)	645 (1,422)	635 (1,400)	635 (1,400)
	Total	kg (lb)	1,435 (3,164)	1,455 (3,208)	1,445 (3,186)	1,465 (3,230)	1,440 (3,175)	1,460 (3,219)	1,425 (3,142)	1,445 (3,186)
Total axle weight (G.A.W.)	Front axle	kg (lb)	930 (2,051)	930 (2,051)	930 (2,051)	930 (2,051)	930 (2,051)	930 (2,051)	930 (2,051)	930 (2,051)
	Rear axle	kg (lb)	1,000 (2,205)	1,000 (2,205)	1,000 (2,205)	1,000 (2,205)	1,000 (2,205)	1,000 (2,205)	1,000 (2,205)	1,000 (2,205)
Total vehicle weight (G.V.W.)		kg (lb)	1,880 (4,145)	1,880 (4,145)	1,880 (4,145)	1,880 (4,145)	1,880 (4,145)	1,880 (4,145)	1,880 (4,145)	1,880 (4,145)
Option	Aluminum wheel		—		○		○		○	
	Leather seats and leather door trim center decoration		—		○		—		—	
	Front fog light		○		○		○		○	
	Cruise control		○		○		○		○	
	Leather package base		—		○		○		○	
	Sunroof		—		○		○		—	
	VDC+VTD		—		—		—		—	
	Seat heater		—		○		○		○	
	Fully automatic air conditioner		—		○		○		○	
	Manual air conditioner		○		—		—		—	
	Cold zone package		—		○		○		○	
	Side airbag		○		○		○		○	
	De-icer		—		○		○		○	

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Option code★1			CO66		COSL		COTL		COSM	
Engine type			2.5 L Non-turbo				2.5 L Turbo			
Grade			2.5 XS				2.5 XT			
Transmission			5MT	4AT	5MT	4AT	5MT	4AT	5MT	4AT
Vehicle weight (C.W.)	Front axle	kg (lb)	790 (1,742)	810 (1,786)	845 (1,863)	865 (1,907)	830 (1,830)	850 (1,874)	825 (1,819)	845 (1,863)
	Rear axle	kg (lb)	635 (1,400)	635 (1,400)	655 (1,444)	655 (1,444)	650 (1,433)	650 (1,433)	635 (1,400)	635 (1,400)
	Total	kg (lb)	1,425 (3,142)	1,445 (3,186)	1,500 (3,308)	1,520 (3,352)	1,480 (3,263)	1,500 (3,308)	1,460 (3,219)	1,480 (3,263)
Total axle weight (G.A.W.)	Front axle	kg (lb)	930 (2,051)	930 (2,051)	990 (2,183)	990 (2,183)	990 (2,183)	990 (2,183)	990 (2,183)	990 (2,183)
	Rear axle	kg (lb)	1,000 (2,205)	1,000 (2,205)	1,020 (2,249)	1,020 (2,249)	1,020 (2,249)	1,020 (2,249)	1,020 (2,249)	1,020 (2,249)
Total vehicle weight (G.V.W.)		kg (lb)	1,880 (4,145)	1,880 (4,145)	1,960 (4,322)	1,960 (4,322)	1,960 (4,322)	1,960 (4,322)	1,960 (4,322)	1,960 (4,322)
Option	Aluminum wheel		○		○		○		○	
	Leather seats and leather door trim center decoration		—		—		○		—	
	Front fog light		○		○		○		○	
	Cruise control		○		○		○		○	
	Leather package base		○		○		○		○	
	Sunroof		—		○		○		—	
	VDC+VTD		—		—		—		—	
	Seat heater		○		○		○		○	
	Fully automatic air conditioner		—		○		○		○	
	Manual air conditioner		○		—		—		—	
	Cold zone package		○		○		○		○	
	Side airbag		○		○		○		○	
	De-icer		○		○		○		○	

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### 3. OPTION

Option	Front kg (lb)	Rear kg (lb)	Total kg (lb)
Aluminum wheel	-6.6 (-14.6)	-6.6 (-14.6)	-13.2 (-29.1)
Leather seats and leather door trim center decoration	1.2 (2.6)	3.0 (6.6)	4.2 (9.3)
Front fog light	0.7 (1.5)	-0.1 (-0.2)	0.6 (1.3)
Cruise control	1.5 (3.3)	0.2 (0.4)	1.7 (3.7)
Leather package base	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
Sunroof	3.5 (7.7)	13.2 (29.1)	16.7 (36.8)
VDC+VTD	3.0 (6.6)	1.0 (2.2)	4.0 (8.8)
Seat heater	0.2 (0.4)	0.3 (0.7)	0.5 (1.1)
Fully automatic air conditioner	16.9 (37.3)	-1.4 (-3.1)	15.5 (34.2)
Manual air conditioner	16.9 (37.3)	-1.4 (-3.1)	15.5 (34.2)
Cold zone package	0.1 (0.2)	0.2 (0.4)	0.3 (0.7)
Side airbag	2.0 (4.4)	2.4 (5.3)	4.4 (9.7)
De-icer	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)