

**SUBARU**

**1989**

SERVICE  
MANUAL



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# ABBREVIATION LIST

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A/C	Air Conditioner	GVWR	Gross Vehicle Weight Rating
ACC	Accessory	HI	High (Speed)
A/C pulley	Air Conditioner compressor pulley	HP	Horse Power
ALT pulley	Alternator pulley	IG-COIL	Ignition Coil
API	American Petroleum Institute	IG SWITCH	Ignition Switch
Approx	Approximately	INT	Intermittent (Wiper)
ASSY	Assembly	I/P	Idler Pulley
ASV	Air Suction Valve	LH	Left-hand
AT	Automatic Transmission	LO	Low (Speed)
ATF	Automatic Transmission Fluid	LSD	Limited Slip Differential
BILEV	Bi-level	MPFI	Multi Point Fuel Injection
BJ	Joint	MT	Manual Transmission
BP	British Petroleum	PCV	Positive Crankcase Ventilation
BTDC	Before Top Dead Center	PHV	Pressure Holding Valve
Calif.	California	P/N	Parts Number
Carb.	Carburetor	P/S pulley	Power Steering oil pump pulley
CP	Complete	RAD FAN	Radiator Fan
C/P	Crankshaft Pulley	R-DEF	Rear Defogger
CTR	Center	RH	Right-hand
CW	Curb Weight	SAE	Society of Automotive Engineers Inc.
DIFF	Differential	SPFI	Single Point Fuel Injection
DOJ	Double Offset Joint	S/R	Single-range
D/R	Dual-range	TC	Torque Converter
DSPD	Dry Single Plate Diaphragm	TEMP GAUGE	Temperature Gauge
ECS	Electric Control System	VGR	Variable Gear Ratio
FMVSS	Federal Motor Vehicle Safety Standards	VIN	Vehicle Identification Number
FWD	Front wheel drive (2WD)	W/height control	With height control
		W/P pulley	Water Pump pulley

**SUBARU**

**1989**

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## 4-DOOR SEDAN

ITEM			MODEL	FWD						
				DL	DL	GL	GL	GL-10	GL-10 TURBO	
				SPFI 5MT	SPFI 3AT	SPFI 5MT	SPFI 3AT	SPFI 3AT	MPFI 3AT	
Overall length			mm (in)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	
Overall width			mm (in)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	
Overall height			mm (in)	1,334 (52.5)	1,334 (52.5)	1,334 (52.5)	1,334 (52.5)	1,334 (52.5)	1,334 (52.5)	
Compartment	Leg room	Front Max.	mm (in)	1,060 (41.7)	1,060 (41.7)	1,060 (41.7)	1,060 (41.7)	1,060 (41.7)	1,060 (41.7)	
		Rear Min.	mm (in)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	
	Head room	Front	mm (in)	954 (37.6)	954 (37.6)	954 (37.6)	954 (37.6)	954 (37.6)	954 (37.6)	
		Rear	mm (in)	928 (36.5)	928 (36.5)	928 (36.5)	928 (36.5)	928 (36.5)	928 (36.5)	
	Shoulder room		mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	
	Wheelbase			mm (in)	2,470 (97.2)	2,470 (97.2)	2,470 (97.2)	2,470 (97.2)	2,470 (97.2)	2,470 (97.2)
Tread	Front	mm (in)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)		
	Rear	mm (in)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)		
Minimum road clearance			mm (in)	130 (5.1)	130 (5.1)	130 (5.1)	130 (5.1)	130 (5.1)	130 (5.1)	
Weight	Curb weight	For U.S.A.	Front	kg (lb)	*1 610 (1,345)	*1 626 (1,380)	*2 624 (1,375)	*2 637 (1,405)	*3 683 (1,505)	*3 707 (1,560)
			Rear	kg (lb)	*1 406 (895)	*1 408 (900)	*2 415 (915)	*2 420 (925)	*3 444 (980)	*3 456 (1,005)
			Total	kg (lb)	*1 1,016 (2,240)	*1 1,034 (2,280)	*2 1,039 (2,290)	*2 1,057 (2,330)	*3 1,127 (2,485)	*3 1,163 (2,565)
		For Canada	Front	kg (lb)	*1 610 (1,345)	*1 626 (1,380)	*1 621 (1,370)	*1 635 (1,400)	—	*3 703 (1,550)
			Rear	kg (lb)	*1 406 (895)	*1 408 (900)	*1 413 (910)	*1 417 (920)	—	*3 449 (990)
			Total	kg (lb)	*1 1,016 (2,240)	*1 1,034 (2,280)	*1 1,034 (2,280)	*1 1,052 (2,320)	—	*3 1,152 (2,540)
	Gross vehicle weight	Front	kg (lb)	844 (1,860)	844 (1,860)	844 (1,860)	844 (1,860)	862 (1,900)	862 (1,900)	
		Rear	kg (lb)	712 (1,570)	712 (1,570)	712 (1,570)	712 (1,570)	730 (1,610)	730 (1,610)	
		Total	kg (lb)	1,556 (3,430)	1,556 (3,430)	1,556 (3,430)	1,556 (3,430)	1,592 (3,510)	1,592 (3,510)	

\*1: The weight of power steering is included in C.W.

\*2: The weight of power steering, power window, and auto door lock system is included in C.W.

\*3: The weight of sunroof, air conditioner, power steering, power window, digital instrument panel, cruise control and auto door lock system is included in C.W.

# SPECIFICATIONS

## 4-DOOR SEDAN

ITEM			MODEL	4WD					
				GL	GL	Full time 4WD RX TURBO	Full time 4WD GL-10 TURBO	Full time 4WD GL-10 TURBO	
				SPFI 5MT D/R	SPFI 3AT	MPSFI 5MT D/R	MPSFI 5MT S/R	MPSFI 4AT	
Overall length			mm (in)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	
Overall width			mm (in)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	
Overall height			mm (in)	1,380 (54.3)	1,380 (54.3)	1,380 (54.3)	1,410 (55.5)	1,410 (55.5)	
Compartment	Leg room	Front Max.	mm (in)	1,060 (41.7)	1,060 (41.7)	1,060 (41.7)	1,060 (41.7)	1,060 (41.7)	
		Rear Min.	mm (in)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	
	Head room	Front	mm (in)	954 (37.6)	954 (37.6)	954 (37.6)	954 (37.6)	954 (37.6)	
		Rear	mm (in)	928 (36.5)	928 (36.5)	928 (36.5)	928 (36.5)	928 (36.5)	
	Shoulder room		mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	
	Wheelbase			mm (in)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)
Tread	Front	mm (in)	1,410 (55.5)	1,410 (55.5)	1,410 (55.5)	1,420 (55.9)	1,420 (55.9)		
	Rear	mm (in)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)		
Minimum road clearance			mm (in)	130 (5.1)	130 (5.1)	130 (5.1)	160 (6.3)	160 (6.3)	
Weight	Curb weight	For U.S.A.	Front	kg (lb)	*2 642 (1,415)	*2 646 (1,425)	*3 703 (1,550)	*4 712 (1,570)	*5 755 (1,665)
			Rear	kg (lb)	*2 472 (1,040)	*2 474 (1,045)	*3 497 (1,095)	*4 515 (1,135)	*5 513 (1,130)
			Total	kg (lb)	*2 1,114 (2,455)	*2 1,120 (2,470)	*3 1,200 (2,645)	*4 1,227 (2,705)	*5 1,268 (2,795)
		For Canada	Front	kg (lb)	*1 640 (1,410)	*1 644 (1,420)	—	—	*5 755 (1,665)
			Rear	kg (lb)	*1 469 (1,035)	*1 472 (1,040)	—	—	*5 513 (1,130)
			Total	kg (lb)	*1 1,109 (2,445)	*1 1,116 (2,460)	—	—	*5 1,268 (2,795)
	Gross vehicle weight		Front	kg (lb)	816 (1,800)	816 (1,800)	828 (1,825)	828 (1,825)	828 (1,825)
			Rear	kg (lb)	753 (1,660)	753 (1,660)	782 (1,725)	782 (1,725)	782 (1,725)
			Total	kg (lb)	1,569 (3,460)	1,569 (3,460)	1,610 (3,550)	1,610 (3,550)	1,610 (3,550)

\*1: The weight of power steering is included in C.W.

\*2: The weight of power steering, power window and auto door lock system is included in C.W.

\*3: The weight of air conditioner, power steering, power window, auto door lock system, L.S.D. and RX package is included in C.W.

\*4: The weight of sunroof, air conditioner, power steering, power window, digital instrument panel, cruise control, auto door lock system and L.S.D. is included in C.W.

\*5: The weight of sunroof, air conditioner, power steering, power window, digital instrument panel, cruise control and auto door lock system is included in C.W.

## 4-DOOR SEDAN

ITEM		MODEL	FWD						
			DL	DL	GL	GL	GL-10	GL-10 TURBO	
			SPFI 5MT	SPFI 3AT	SPFI 5MT	SPFI 3AT	SPFI 3AT	MPFI 3AT	
Seating capacity		persons	5						
Engine type		Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine With Single-Point Fuel Injection						With Multi-Point Fuel Injection and Turbocharger	
Valve arrangement		Overhead camshaft type							
Bore x stroke		mm (in)	92 x 67 (3.62 x 2.64)						
Displacement		cm <sup>3</sup> (cu in)	1,781 (108.68)						
Compression ratio			9.5	9.5	9.5	9.5	9.5	7.7	
Firing order		1-3-2-4							
Ignition timing at idling speed		BTDC/rpm*1	20°/700	20°/700	20°/700	20°/700	20°/700	20°/800	
Idling speed at neutral, N or P position		rpm	700±100	700±100	700±100	700±100	700±100	800±100	
Spark plug	Type and manufacturer		NGK: BPR6ES-11 (or BPR5ES-11, BPR7ES-11) Nippondenso: W20EPR-U11 (or W16EPR-U11, W22EPR-U11) Champion: RN9YC-4						
Maximum output		HP/rpm	84/5,200						115/5,200
Maximum torque		N-m (kg-m, ft-lb)/rpm	137 (14.0, 101)/2,800						181 (18.5, 134)/2,800
Battery	Type		50D20R-MF	65D23R-MF	50D20R-MF	65D23R-MF	65D23R-MF	75D23R-MF	
	Reserve capacity (min.)		78	111	78	111	111	111	
	Cold cranking ampere (amp.)		306	420	306	420	420	490	
Alternator		12V-60A							
Clutch type			DSPD	TC	DSPD	TC	TC	TC	
Transmission type			*2	*3	*2	*3	*3	*3	
Gear ratio	1st		3.636	2.821	3.636	2.821	2.821	2.821	
	2nd		1.950	1.559	1.950	1.559	1.559	1.559	
	3rd (Drive)		1.344	1.000	1.344	1.000	1.000	1.000	
	4th		0.971	—	0.971	—	—	—	
	5th		0.783	—	0.783	—	—	—	
	Reverse		3.583	2.257	3.583	2.257	2.257	2.257	
Auxiliary transmission gear ratio	High		—	—	—	—	—	—	
	Low		—	—	—	—	—	—	
Reduction gear (Front drive)	1st reduction	Type of gear	—	Helical	—	Helical	Helical	Helical	
		Reduction gear ratio	—	0.976	—	0.976	0.976	0.976	
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid	
		Reduction gear ratio	3.900	3.700	3.900	3.700	3.700	3.454	

DSPD: Dry Single Plate Diaphragm

TC : Torque Converter

\*1: Without vacuum

\*2: 5-forward speeds with synchromesh and 1-reverse

\*3: Full automatic, 3-forward and 1-reverse

# SPECIFICATIONS

1-1

## 4-DOOR SEDAN

MODEL		4WD					
		GL	GL	Full time 4WD RX TURBO	Full time 4WD GL-10 TURBO	Full time 4WD GL-10 TURBO	
		SPFI 5MT D/R	SPFI 3AT	MPFI 5MT D/R	MPFI 5MT S/R	MPFI 4AT	
ITEM							
Seating capacity	persons	5					
Engine type	Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine						
Valve arrangement	Overhead camshaft type						
Bore x stroke	mm (in)	92 x 67 (3.62 x 2.64)					
Displacement	cm <sup>3</sup> (cu in)	1,781 (108.68)					
Compression ratio		9.5	9.5	7.7	7.7	7.7	
Firing order		1-3-2-4					
Ignition timing at idling speed	BTDC/rpm* 1	20°/700	20°/700	20°/700	20°/700	20°/800	
Idling speed at neutral, N or P position	rpm	700±100	700±100	700±100	700±100	800±100	
Spark plug	Type and manufacturer	NGK: BPR6ES-11 (or BPR5ES-11, BPR7ES-11) Nippondenso: W20EPR-U11 (or W16EPR-U11, W22EPR-U11) Champion: RN9YC-4					
Maximum output	HP/rpm	90/5,200		115/5,200			
Maximum torque	N·m (kg-m, ft-lb)/rpm	137 (14.0, 101)/2,800		181 (18.5, 134)/2,800			
Battery	Type	50D20R-MF	65D23R-MF	50D20R-MF	50D20R-MF	75D23R-MF	
	Reserve capacity (min.)	78	111	78	78	111	
	Cold cranking ampere (amp.)	306	420	306	306	490	
Alternator		12V-60A					
Clutch type		DSPD	TC	DSPD	DSPD	TC	
Transmission type		*3	*2	*4	*5	*6	
Gear ratio	1st	3.545	2.821	3.545	3.545	2.785	
	2nd	1.947	1.559	2.111	2.111	1.545	
	3rd (Drive)	1.366	1.000	1.448	1.448	1.000	
	4th	0.972	—	1.088	1.088	0.694	
	5th	0.780	—	0.871	0.871	—	
	Reverse	3.416	2.257	3.416	3.416	2.272	
Auxiliary transmission gear ratio	High	1.000	—	1.000	—	—	
	Low	1.592	—	1.196	—	—	
Reduction gear (Front drive)	1st reduction	Type of gear	—	Helical	—	—	Helical
		Reduction gear ratio	—	0.974	—	—	1.000
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid
		Reduction gear ratio	3.900	3.700	3.700	3.700	3.700

DSPD: Dry Single Plate Diaphragm

TC : Torque Converter

\*1: Without vacuum

\*2: Full automatic, 3-forward and 1-reverse

\*3: 5x2-forward speeds with synchromesh and 1-reverse (Dual range)

\*4: 5x2-forward speeds with synchromesh and 1-reverse (Dual range) – with center differential

\*5: 5-forward speeds with synchromesh and 1-reverse (Single range) – with center differential

\*6: Full automatic, 4-forward and 1-reverse

4-DOOR SEDAN

ITEM			MODEL		FWD					
			DL	DL	GL	GL	GL-10	GL-10 TURBO		
			SPFI 5MT	SPFI 3AT	SPFI 5MT	SPFI 3AT	SPFI 3AT	MPI 3AT		
Reduction gear (Rear drive)	Transfer reduction	Type of gear	-	-	-	-	-	-	-	
		Reduction gear ratio	-	-	-	-	-	-	-	
	Final reduction	Type of gear	-	-	-	-	-	-	-	
		Reduction gear ratio	-	-	-	-	-	-	-	
Steering system	Type		Rack and pinion							
	Turns, lock to lock		3.7							
	Minimum turning circle*1 m (ft)		At tire ..... 9.6 (31.5) At bumper ..... 10.6 (34.8)							
Suspension	Front		MacPherson strut type, Independent, Coil spring							
	Rear		Semi-trailing arm type, Independent, Coil spring							
Brake	Service brake system		Dual circuit hydraulic with vacuum suspended power unit							
	Front		Ventilated disc brake							
	Rear		Drum brake (Leading & trailing type)					Disc brake		
	Parking brake		Mechanical on front brake							
Tire	Size		155SR13		175/70SR13		175/70HR13			
	Type		Steel belted radial, Tubeless							
Capacity	Fuel tank capacity ℓ (US gal., Imp gal.)		60 (15.9, 13.2)							
	Engine oil	Upper level ℓ (US qt, Imp qt)	4.0 (4.2, 3.5)							
		Lower level ℓ (US qt, Imp qt)	3.0 (3.2, 2.6)							
	Transmission gear oil ℓ (US qt, Imp qt)		2.6 (2.7, 2.3)	-	2.6 (2.7, 2.3)	-	-	-	-	
	Automatic transmission fluid ℓ (US qt, Imp qt)		-	6.2±0.1 (6.6±0.1, 5.5±0.1)	-	6.2±0.1 (6.6±0.1, 5.5±0.1)	6.2±0.1 (6.6±0.1, 5.5±0.1)	6.2±0.1 (6.6±0.1, 5.5±0.1)	6.2±0.1 (6.6±0.1, 5.5±0.1)	
	AT differential gear oil ℓ (US qt, Imp qt)		-	1.2 (1.3, 1.1)	-	1.2 (1.3, 1.1)	1.2 (1.3, 1.1)	1.2 (1.3, 1.1)	1.2 (1.3, 1.1)	
	4WD rear differential gear oil ℓ (US qt, Imp qt)		-	-	-	-	-	-	-	
	Power steering fluid ℓ (US qt, Imp qt)		0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	
Engine coolant ℓ (US qt, Imp qt)		5.5 (5.8, 4.8)						6.0 (6.3, 5.3) *2 5.5 (5.8, 4.8)		

\*1: Curb to curb  
\*2: For CANADA



# SPECIFICATIONS

## 4-DOOR SEDAN

ITEM			MODEL		4WD				
			GL	GL	Full time 4WD RX TURBO	Full time 4WD GL-10 TURBO	Full time 4WD GL-10 TURBO		
			SPFI 5MT D/R	SPFI 3AT	MPFI 5MT D/R	MPFI 5MT S/R	MPFI 4AT		
Reduction gear (Rear drive)	Transfer reduction	Type of gear	Helical	Helical	Helical	Helical	—		
		Reduction gear ratio	1.000	0.948	1.000	1.000	—		
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid		
		Reduction gear ratio	3.900	3.900	3.700	3.700	3.700		
Steering system	Type		Rack and pinion						
	Turns, lock to lock		3.7						
	Minimum turning circle*1 m (ft)		At tire ..... 9.6 (31.5) At bumper ... 10.6 (34.8)						
Suspension	Front		MacPherson strut type, Independent, Coil spring			*2			
	Rear		Semi-trailing arm type, Independent, Coil spring			*3			
Brake	Service brake system		Dual circuit hydraulic with vacuum suspended power unit						
	Front		Ventilated disc brake						
	Rear		Drum brake (Leading & trailing type)		Disc brake				
	Parking brake		Mechanical on front brake						
Tire	Size		175/70SR13		185/70HR13				
	Type		Steel belted radial, Tubeless						
Capacity	Fuel tank capacity ℓ (US gal., Imp gal.)		60 (15.9, 13.2)						
	Engine oil	Upper level ℓ (US qt, Imp qt)	4.0 (4.2, 3.5)						
		Lower level ℓ (US qt, Imp qt)	3.0 (3.2, 2.6)						
	Transmission gear oil ℓ (US qt, Imp qt)		3.3 (3.5, 2.9)	—	3.5 (3.7, 3.1)	3.5 (3.7, 3.1)	—		
	Automatic transmission fluid ℓ (US qt, Imp qt)		—	6.55±0.1 (6.9±0.1, 5.8±0.1)	—	—	9.5 (10.0, 8.4)		
	AT differential gear oil ℓ (US pt, Imp pt)		—	1.2 (2.5, 2.1)	—	—	1.4 (3.0, 2.5)		
	4WD rear differential gear oil ℓ (US qt, Imp qt)		0.8 (0.8, 0.7)	0.8 (0.8, 0.7)	0.8 (0.8, 0.7)	0.8 (0.8, 0.7)	0.8 (0.8, 0.7)		
	Power steering fluid ℓ (US qt, Imp qt)		0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)		
	Engine coolant ℓ (US qt, Imp qt)		5.5 (5.8, 4.8)				6.0 (6.3, 5.3) *4 5.5 (5.8, 4.8)		

\*1: Curb to curb

\*2: MacPherson strut type, Independent, Pneumatic suspension with height control

\*3: Semi-trailing arm type, Independent, Pneumatic suspension with height control

\*4: For CANADA

## STATION WAGON

ITEM			MODEL	FWD						
				DL	DL	GL	GL	GL-10	GL-10 TURBO	
				SPFI 5MT	SPFI 3AT	SPFI 5MT	SPFI 3AT	SPFI 3AT	MPFI 3AT	
Overall length			mm (in)	4,490 (176.8) *4 4,410 (173.6)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)
Overall width			mm (in)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)
Overall height			mm (in)	1,345 (53.0)	1,345 (53.0)	1,345 (53.0)	1,345 (53.0)	1,345 (53.0)	1,345 (53.0)	1,345 (53.0)
Cargo space	Length	at 2 seats	mm (in)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)
		at 5 seats	mm (in)	805 (31.7)	805 (31.7)	805 (31.7)	805 (31.7)	805 (31.7)	805 (31.7)	805 (31.7)
	Width	at 2 seats	mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)
		at 5 seats	mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)
	Height	mm (in)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)
Wheelbase			mm (in)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)
Tread	Front	mm (in)	1,420 (55.9)	1,420 (55.9)	1,420 (55.9)	1,420 (55.9)	1,420 (55.9)	1,420 (55.9)	1,420 (55.9)	1,420 (55.9)
	Rear	mm (in)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)
Minimum road clearance			mm (in)	140 (5.5)	140 (5.5)	140 (5.5)	140 (5.5)	140 (5.5)	140 (5.5)	140 (5.5)
Weight	Curb weight	For U.S.A.	Front	kg (lb)	*1 608 (1,340) *4 585 (1,290)	*2 619 (1,365)	*2 615 (1,355)	*2 631 (1,390)	*3 676 (1,490)	*3 703 (1,550)
			Rear	kg (lb)	*1 467 (1,030) *4 458 (1,010)	*1 474 (1,045)	*2 492 (1,085)	*2 494 (1,090)	*3 506 (1,115)	*3 515 (1,135)
			Total	kg (lb)	*1 1,075 (2,370) *4 1,043 (2,300)	*1 1,093 (2,410)	*2 1,107 (2,440)	*2 1,125 (2,480)	*3 1,182 (2,605)	*3 1,218 (2,685)
		For Canada	Front	kg (lb)	*1 608 (1,340)	*1 619 (1,365)	*1 612 (1,350)	*1 628 (1,385)	—	*3 703 (1,550)
			Rear	kg (lb)	*1 467 (1,030)	*1 474 (1,045)	*1 488 (1,075)	*1 490 (1,080)	—	*3 515 (1,135)
			Total	kg (lb)	*1 1,075 (2,370)	*1 1,093 (2,410)	*1 1,100 (2,425)	*1 1,118 (2,465)	—	*3 1,218 (2,685)

\*1: The weight of power steering is included in C.W.

\*2: The weight of power steering, power window and auto door lock system is included in C.W.

\*3: The weight of sunroof, air conditioner, power steering, power window, digital instrument panel, cruise control and auto door lock system is included in C.W.

\*4: For Puerto Rico model only

# SPECIFICATIONS

## STATION WAGON

ITEM			MODEL		4WD					
					DL	GL	GL	GL TURBO	Full time 4WD GL-10 TURBO	Full time 4WD GL-10 TURBO
			SPFI 5MT S/R	SPFI 5MT D/R	SPFI 3AT	MPFI 5MT S/R	MPFI 5MT S/R	MPFI 4AT		
Overall length			mm (in)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	
Overall width			mm (in)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	
Overall height			mm (in)	1,395 (54.9)	1,395 (54.9)	1,395 (54.9)	1,395 (54.9)	1,395 (54.9)	1,425 (56.1)	
Cargo space	Length	at 2 seats	mm (in)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	
		at 5 seats	mm (in)	805 (31.7)	805 (31.7)	805 (31.7)	805 (31.7)	805 (31.7)	805 (31.7)	
	Width	at 2 seats	mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	
		at 5 seats	mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	
Height		mm (in)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	895 (35.2)	
Wheelbase			mm (in)	2,460 (96.9)	2,460 (96.9)	2,460 (96.9)	2,460 (96.9)	2,460 (96.9)	2,465 (97.0)	
Tread		Front	mm (in)	1,410 (55.5)	1,410 (55.5)	1,410 (55.5)	1,410 (55.5)	1,410 (55.5)	1,420 (55.9)	
		Rear	mm (in)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	
Minimum road clearance			mm (in)	135 (5.3)	135 (5.3)	135 (5.3)	135 (5.3)	135 (5.3)	160 (6.3)	
Weight	Curb weight	For U.S.A.	Front	kg (lb)	*1 630 (1,390)	*2 646 (1,425)	*2 653 (1,440)	*3 687 (1,515)	*4 703 (1,550)	*5 750 (1,655)
			Rear	kg (lb)	*1 524 (1,155)	*2 540 (1,190)	*2 540 (1,190)	*3 540 (1,190)	*4 563 (1,240)	*5 565 (1,245)
			Total	kg (lb)	*1 1,154 (2,545)	*2 1,186 (2,615)	*2 1,193 (2,630)	*3 1,227 (2,705)	*4 1,266 (2,790)	*5 1,315 (2,900)
		For Canada	Front	kg (lb)	*1 630 (1,390)	*1 644 (1,420)	*1 651 (1,435)	-	-	*5 750 (1,655)
			Rear	kg (lb)	*1 524 (1,155)	*1 535 (1,180)	*1 535 (1,180)	-	-	*5 565 (1,245)
			Total	kg (lb)	*1 1,154 (2,545)	*1 1,179 (2,600)	*1 1,186 (2,615)	-	-	*5 1,315 (2,900)

- \*1: The weight of power steering is included in C.W.
- \*2: The weight of power steering, power window and auto door lock system is included in C.W.
- \*3: The weight of air conditioner, power steering, power window and auto door lock system is included in C.W.
- \*4: The weight of sunroof, air conditioner, power steering, power window, digital instrument panel, cruise control, auto door lock and L.S.D. system is included in C.W.
- \*5: The weight of sunroof, air conditioner, power steering, power window, digital instrument panel, cruise control and auto door lock system is included in C.W.

# SPECIFICATIONS

## STATION WAGON

ITEM			MODEL		FWD					
					DL	DL	GL	GL	GL-10	GL-10 TURBO
					SPFI 5MT	SPFI 3AT	SPFI 5MT	SPFI 3AT	SPFI 3AT	MPFI 3AT
Weight	Gross vehicle weight	Front	kg (lb)	816 (1,800)	816 (1,800)	844 (1,860)	844 (1,860)	857 (1,890)	857 (1,890)	
		Rear	kg (lb)	794 (1,750)	794 (1,750)	821 (1,810)	821 (1,810)	835 (1,840)	835 (1,840)	
		Total	kg (lb)	1,610 (3,550)	1,610 (3,550)	1,665 (3,670)	1,665 (3,670)	1,692 (3,730)	1,692 (3,730)	
Seating capacity			persons	5						
Engine type			Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine With Single-Point Fuel Injection						With Multi-Point Fuel Injection and Turbocharger	
Valve arrangement			Overhead camshaft type							
Bore x stroke			mm (in)	92 x 67 (3.62 x 2.64)						
Displacement			cm <sup>3</sup> (cu in)	1,781 (108.68)						
Compression ratio				9.5	9.5	9.5	9.5	9.5	7.7	
Firing order			1-3-2-4							
Ignition timing at idling speed			BTDC/rpm*1	20°/700	20°/700	20°/700	20°/700	20°/700	20°/800	
Idling speed at neutral, N or P position			rpm	700±100	700±100	700±100	700±100	700±100	800±100	
Spark plug	Type and manufacturer		NGK: BPR6ES-11 (or BPR5ES-11, BPR7ES-11) Nippondenso: W20EPR-U11 (or W16EPR-U11, W22EPR-U11) Champion: RN9YC-4							
Maximum output			HP/rpm	90/5,200						115/5,200
Maximum torque			N-m (kg-m, ft-lb)/rpm	137 (14.0, 101)/2,800						181 (18.5, 134)/2,800
Battery	Type		50D20R-MF	65D23R-MF	50D20R-MF	65D23R-MF	65D23R-MF	75D23R-MF		
	Reserve capacity (min.)		78	111	78	111	111	111		
	Cold cranking ampere (amp.)		306	420	306	420	420	490		
Alternator			12V-60A							
Clutch type			DSPD	TC	DSPD	TC	TC	TC		
Transmission type			*2	*3	*2	*3	*3	*3		
Gear ratio	1st		3.636	2.821	3.636	2.821	2.821	2.821		
	2nd		1.950	1.559	1.950	1.559	1.559	1.559		
	3rd (Drive)		1.344	1.000	1.344	1.000	1.000	1.000		
	4th		0.971	—	0.971	—	—	—		
	5th		0.783	—	0.783	—	—	—		
	Reverse		3.583	2.257	3.583	2.257	2.257	2.257		
Auxiliary transmission gear ratio	High		—	—	—	—	—	—		
	Low		—	—	—	—	—	—		

DSPD: Dry Single Plate Diaphragm  
 TC : Torque Converter

\*1: Without vacuum  
 \*2: 5-forward speeds with synchromesh and 1-reverse  
 \*3: Full automatic, 3-forward and 1-reverse

# SPECIFICATIONS

## STATION WAGON

ITEM		MODEL		4WD					
				DL	GL	GL	GL TURBO	Full time 4WD GL-10 TURBO	Full time 4WD GL-10 TURBO
				SPFI 5MT S/R	SPFI 5MT D/R	MPFI 3AT	MPFI 5MT S/R	MPFI 5MT S/R	MPFI 4AT
Weight	Gross vehicle weight	Front	kg (lb)	803 (1,770)	803 (1,770)	803 (1,770)	819 (1,805)	819 (1,805)	850 (1,875)
		Rear	kg (lb)	859 (1,895)	859 (1,895)	859 (1,895)	877 (1,935)	877 (1,935)	880 (1,940)
		Total	kg (lb)	1,662 (3,665)	1,662 (3,665)	1,662 (3,665)	1,696 (3,740)	1,696 (3,740)	1,730 (3,815)
Seating capacity		persons		5					
Engine type		Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine  With Single-Point Fuel Injection                      With Multi-Point Fuel Injection and Turbocharger							
Valve arrangement		Overhead camshaft type							
Bore x stroke		mm (in)		92 x 67 (3.62 x 2.64)					
Displacement		cm <sup>3</sup> (cu in)		1,781 (108.68)					
Compression ratio				9.5	9.5	9.5	7.7	7.7	7.7
Firing order		1-3-2-4							
Ignition timing at idling speed		BTDC/rpm*1		20°/700	20°/700	20°/700	20°/700	20°/700	20°/800
Idling speed at neutral, N or P position		rpm		700±100	700±100	700±100	700±100	700±100	800±100
Spark plug	Type and manufacturer		NGK:                      BPR6ES-11 (or BPR5ES-11, BPR7ES-11) Nippondenso: W20EPR-U11 (or W16EPR-U11, W22EPR-U11) Champion:            RN9YC-4						
Maximum output		HP/rpm		90/5,200			115/5,200		
Maximum torque		N-m (kg-m, ft-lb)/rpm		137 (14.0, 101)/2,800			181 (18.5, 134)/2,800		
Battery	Type		50D20R-MF	50D20R-MF	65D20R-MF	50D20R-MF	50D20R-MF	75D23R-MF	
	Reserve capacity (min.)		78	78	111	78	78	111	
	Cold cranking ampere (amp.)		306	306	420	306	306	490	
Alternator		12V-60A							
Clutch type		DSPD	DSPD	TC	DSPD	DSPD	TC		
Transmission type		*2	*4	*3	*2	*6	*5		
Gear ratio	1st		3.545	3.545	2.821	3.545	3.545	2.785	
	2nd		1.947	1.947	1.559	2.111	2.111	1.545	
	3rd (Drive)		1.366	1.366	1.000	1.448	1.448	1.000	
	4th		0.972	0.972	—	1.088	1.088	0.694	
	5th		0.780	0.780	—	0.871	0.871	—	
	Reverse		3.416	3.416	2.257	3.416	3.416	2.272	
Auxiliary transmission gear ratio	High		—	1.000	—	—	—	—	
	Low		—	1.592	—	—	—	—	

DSPD: Dry Single Plate Diaphragm  
TC : Torque Converter

- \*1: Without vacuum
- \*2: 5-forward speeds with synchromesh and 1-reverse
- \*3: Full automatic, 3-forward and 1-reverse
- \*4: 5x2-forward speeds with synchromesh and 1-reverse (Dual range)
- \*5: Full automatic, 4-forward and 1-reverse
- \*6: 5-forward speeds with synchromesh and 1-reverse (Single range) — with center differential

STATION WAGON

ITEM			MODEL		FWD					
					DL	DL	GL	GL	GL-10	GL-10 TURBO
			SPFI 5MT	SPFI 3AT	SPFI 5MT	SPFI 3AT	SPFI 3AT	MPFI 3AT		
Reduction gear (Front drive)	1st reduction	Type of gear	—	Helical	—	Helical	Helical	Helical		
		Reduction gear ratio	—	0.976	—	0.976	0.976	0.976		
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid		
		Reduction gear ratio	3.900	3.700	3.900	3.700	3.700	3.454		
Reduction gear (Rear drive)	Transfer reduction	Type of gear	—	—	—	—	—	—		
		Reduction gear ratio	—	—	—	—	—	—		
	Final reduction	Type of gear	—	—	—	—	—	—		
		Reduction gear ratio	—	—	—	—	—	—		
Steering system	Type		Rack and pinion							
	Turns, lock to lock		3.7							
	Minimum turning circle*1 m (ft)		At tire ..... 9.6 (31.5) At bumper.... 10.6 (34.8)							
Suspension	Front		MacPherson strut type, Independent, Coil spring							
	Rear		Semi-trailing arm type, Independent, Coil spring							
Brake	Service brake system		Dual circuit hydraulic with vacuum suspended power unit							
	Front		Ventilated disc brake							
	Rear		Drum brake (Leading & trailing type)					Disc brake		
	Parking brake		Mechanical on front brake							
Tire	Size		155SR13	175/70SR13	175/70HR13					
	Type		Steel belted radial, Tubeless							
Capacity	Fuel tank capacity ℓ (US gal., Imp gal.)		60 (15.9, 13.2)							
	Engine oil	Upper level ℓ (US qt, Imp qt)	4.0 (4.2, 3.5)							
		Lower level ℓ (US qt, Imp qt)	3.0 (3.2, 2.6)							
	Transmission gear oil ℓ (US qt, Imp qt)		2.6 (2.7, 2.3)	—	2.6 (2.7, 2.3)	—	—	—		
	Automatic transmission fluid ℓ (US qt, Imp qt)		—	6.2±0.1 (6.6±0.1, 5.5±0.1)	—	6.2±0.1 (6.6±0.1, 5.5±0.1)	6.2±0.1 (6.6±0.1, 5.5±0.1)	6.2±0.1 (6.6±0.1, 5.5±0.1)		
	AT differential gear oil ℓ (US qt, Imp qt)		—	1.2 (1.3, 1.1)	—	1.2 (1.3, 1.1)	1.2 (1.3, 1.1)	1.2 (1.3, 1.1)		
	4WD rear differential gear oil ℓ (US qt, Imp qt)		—	—	—	—	—	—		
	Power steering fluid ℓ (US qt, Imp qt)		0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)		
	Engine coolant ℓ (US qt, Imp qt)		5.5 (5.8, 4.8)					6.0 (6.3, 5.3) *2 5.5 (5.8, 4.8)		

\*1: Curb to curb  
\*2: For CANADA

# SPECIFICATIONS

1-1

## STATION WAGON

MODEL			4WD					
			DL	GL	GL	GL TURBO	Full time 4WD GL-10 TURBO	Full time 4WD GL-10 TURBO
			SPFI 5MT S/R	SPFI 5MT D/R	SPFI 3AT	MPFI 5MT S/R	MPFI 5MT S/R	MPFI 4AT
ITEM								
Reduction gear (Rear drive)	Transfer reduction	Type of gear	Helical	Helical	Helical	Helical	Helical	-
		Reduction gear ratio	1.000	1.000	0.948	1.000	1.000	-
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid
		Reduction gear ratio	3.900	3.900	3.900	3.700	3.700	3.700
Reduction gear (Rear drive)	Transfer reduction	Type of gear	Helical	Helical	Helical	Helical	Helical	-
		Reduction gear ratio	1.000	1.000	0.948	1.000	1.000	-
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid
		Reduction gear ratio	3.900	3.900	3.900	3.700	3.700	3.700
Steering system	Type		Rack and pinion					
	Turns, lock to lock		3.7					
	Minimum turning circle*1 m (ft)		At tire ..... 9.6 (31.5) At bumper ... 10.6 (34.8)					
Suspension	Front		MacPherson strut type, Independent, Coil spring					*2
	Rear		Semi-trailing arm type, Independent, Coil spring					*3
Brake	Service brake system		Dual circuit hydraulic with vacuum suspended power unit					
	Front		Ventilated disc brake					
	Rear		Drum brake (Leading & trailing type)			Disc brake		
	Parking brake		Mechanical on front brake					
Tire	Size		165SR13	185/70SR13	185/70HR13			
	Type		Steel belted radial, Tubeless					
Capacity	Fuel tank capacity ℓ (US gal., Imp gal.)		60 (15.9, 13.2)					
	Engine oil	Upper level ℓ (US qt, Imp qt)	4.0 (4.2, 3.5)					
		Lower level ℓ (US qt, Imp qt)	3.0 (3.2, 2.6)					
	Transmission gear oil ℓ (US qt, Imp qt)		3.3 (3.5, 2.9)	3.3 (3.5, 2.9)	-	3.3 (3.5, 2.9)	3.5 (3.7, 3.1)	-
	Automatic transmission fluid ℓ (US qt, Imp qt)		-	-	6.55±0.1 (6.9±0.1, 5.8±0.1)	-	-	9.5 (10.0, 8.4)
	AT differential gear oil ℓ (US pt, Imp pt)		-	-	1.2 (2.5, 2.1)	-	-	1.4 (3.0, 2.5)
	4WD rear differential gear oil ℓ (US qt, Imp qt)		0.8 (0.8, 0.7)	0.8 (0.8, 0.7)	0.8 (0.8, 0.7)	0.8 (0.8, 0.7)	0.8 (0.8, 0.7)	0.8 (0.8, 0.7)
	Power steering fluid ℓ (US qt, Imp qt)		0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)
	Engine coolant ℓ (US qt, Imp qt)		5.5 (5.8, 4.8)					6.0 (6.3, 5.3) *2 5.5 (5.8, 4.8)

\*1: Curb to curb

\*2: MacPherson strut type, Independent, Pneumatic suspension with height control

\*3: Semi-trailing arm type, Independent, Pneumatic suspension with height control

\*4: For CANADA

## 3-DOOR

ITEM			MODEL	FWD				4WD			
				DL	DL	GL	GL	GL	GL	Full time 4WD RX TURBO	
				SPFI 5MT	SPFI 3AT	SPFI 5MT	SPFI 3AT	SPFI 5MT D/R	SPFI 3AT	MPFI 5MT D/R	
Overall length			mm (in)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	4,435 (174.6)	
Overall width			mm (in)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	
Overall height			mm (in)	1,316 (51.8)	1,316 (51.8)	1,316 (51.8)	1,316 (51.8)	1,357 (53.4)	1,357 (53.4)	1,357 (53.4)	
Compartment	Leg room	Front Max.	mm (in)	1,073 (42.2)	1,073 (42.2)	1,073 (42.2)	1,073 (42.2)	1,073 (42.2)	1,073 (42.2)	1,073 (42.2)	
		Rear Min.	mm (in)	828 (32.6)	828 (32.6)	828 (32.6)	828 (32.6)	828 (32.6)	828 (32.6)	828 (32.6)	
	Head room	Front	mm (in)	955 (37.6)	955 (37.6)	955 (37.6)	955 (37.6)	955 (37.6)	955 (37.6)	955 (37.6)	
		Rear	mm (in)	909 (35.8)	909 (35.8)	909 (35.8)	909 (35.8)	909 (35.8)	909 (35.8)	909 (35.8)	
	Shoulder room		mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	
	Wheelbase			mm (in)	2,470 (97.2)	2,470 (97.2)	2,470 (97.2)	2,470 (97.2)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)
Tread	Front	mm (in)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,410 (55.5)	1,410 (55.5)	1,410 (55.5)		
	Rear	mm (in)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)		
Minimum road clearance			mm (in)	130 (5.1)	130 (5.1)	130 (5.1)	130 (5.1)	130 (5.1)	130 (5.1)	130 (5.1)	
Weight	Curb weight	For U.S.A.	Front	kg (lb)	*1 603 (1,330)	*1 619 (1,365)	*2 617 (1,360)	*2 633 (1,395)	*2 637 (1,405)	*2 644 (1,420)	*3 698 (1,540)
			Rear	kg (lb)	*1 431 (950)	*1 433 (955)	*2 447 (985)	*2 449 (990)	*2 499 (1,100)	*2 501 (1,105)	*3 513 (1,130)
			Total	kg (lb)	*1 1,034 (2,280)	*1 1,052 (2,320)	*2 1,064 (2,345)	*2 1,082 (2,385)	*2 1,136 (2,505)	*2 1,145 (2,525)	*3 1,211 (2,670)
		For Canada	Front	kg (lb)	*1 603 (1,330)	*1 619 (1,365)	*1 614 (1,355)	*1 631 (1,390)	*1 635 (1,400)	*1 642 (1,415)	*3 698 (1,540)
			Rear	kg (lb)	*1 431 (950)	*1 433 (955)	*1 447 (985)	*1 449 (990)	*1 499 (1,100)	*1 501 (1,105)	*3 513 (1,130)
			Total	kg (lb)	*1 1,034 (2,280)	*1 1,052 (2,320)	*1 1,061 (2,340)	*1 1,080 (2,380)	*1 1,134 (2,500)	*1 1,143 (2,520)	*3 1,211 (2,670)
	Gross vehicle weight	Front	kg (lb)	816 (1,800)	816 (1,800)	816 (1,800)	816 (1,800)	817 (1,800)	817 (1,800)	817 (1,800)	
		Rear	kg (lb)	735 (1,620)	735 (1,620)	735 (1,620)	735 (1,620)	780 (1,720)	780 (1,720)	780 (1,720)	
		Total	kg (lb)	1,551 (3,420)	1,551 (3,420)	1,551 (3,420)	1,551 (3,420)	1,597 (3,520)	1,597 (3,520)	1,597 (3,520)	

\*1: The weight of power steering is included in C.W.

\*2: The weight of power steering, power window and auto door lock system is included in C.W.

\*3: The weight of air conditioner, power steering, power window, auto door lock system, L.S.D. and RX package is included in C.W.



# SPECIFICATIONS

## 3-DOOR

MODEL		FWD				4WD		
		DL	DL	GL	GL	GL	GL	Full time 4WD RX TURBO
		SPFI 5MT	SPFI 3AT	SPFI 5MT	SPFI 3AT	SPFI 5MT D/R	SPFI 3AT	MPFI 5MT D/R
ITEM								
Seating capacity	persons	5						
Engine type	Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine  With Single-Point Fuel Injection							With Multi-Point Fuel Injection and Turbo-charger
Valve arrangement	Overhead camshaft type							
Bore x stroke	mm (in)	92 x 67 (3.62 x 2.64)						
Displacement	cm <sup>3</sup> (cu in)	1,781 (108.68)						
Compression ratio		9.5	9.5	9.5	9.5	9.5	9.5	7.7
Firing order		1-3-2-4						
Ignition timing at idling speed	BTDC/rpm*1	20°/700	20°/700	20°/700	20°/700	20°/700	20°/700	20°/700
Idling speed at neutral, N or P position	rpm	700±100	700±100	700±100	700±100	700±100	700±100	700±100
Spark plug	Type and manufacturer	NGK: BPR6ES-11 (or BPR5ES-11, BPR7ES-11) Nippondenso: W20EPR-U11 (or W16EPR-U11, W22EPR-U11) Champion: RN9YC-4						
Maximum output	HP/rpm	90/5,200				90/5,200		115/5,200
Maximum torque	N-m (kg-m, ft-lb)/rpm	137 (14.0, 101)/2,800				137 (14.0, 101)/2,800		181 (18.5, 134) /2,800
Battery	Type	50D20R-MF	65D23R-MF	50D20R-MF	65D23R-MF	50D20R-MF	65D23R-MF	50D20R-MF
	Reserve capacity (min.)	78	111	78	111	78	111	78
	Cold cranking ampere (amp.)	306	420	306	420	306	420	306
Alternator		12V-60A						
Clutch type		DSPD	TC	DSPD	TC	DSPD	TC	DSPD
Transmission type		*2	*3	*2	*3	*4	*3	*5
Gear ratio	1st	3.636	2.821	3.636	2.821	3.545	2.821	3.545
	2nd	1.950	1.559	1.950	1.559	1.947	1.559	2.111
	3rd	1.344	1.000	1.344	1.000	1.366	1.000	1.448
	4th	0.971	—	0.971	—	0.972	—	1.088
	5th	0.783	—	0.783	—	0.780	—	0.871
	Reverse	3.583	2.257	3.583	2.257	3.416	2.257	3.416
Auxiliary transmission gear ratio	High	—	—	—	—	1.000	—	1.000
	Low	—	—	—	—	1.592	—	1.196

DSPD: Dry Single Plate Diaphragm  
TC : Torque Converter

- \*1: Without vacuum
- \*2: 5-forward speeds with synchromesh and 1-reverse
- \*3: Full automatic, 3-forward and 1-reverse
- \*4: 5x2-forward speeds with synchromesh and 1-reverse (Dual-range)
- \*5: 5x2-forward speeds with synchromesh and 1-reverse (Dual-range) — with center differential

3-DOOR

MODEL			FWD				4WD		
			DL	DL	GL	GL	GL	GL	Full time 4WD RX TURBO
			SPFI 5MT	SPFI 3AT	SPFI 5MT	SPFI 3AT	SPFI 5MT D/R	SPFI 3AT	MPFI 5MT D/R
ITEM									
Reduction gear (Front drive)	1st reduction	Type of gear	—	Helical	—	Helical	—	Helical	—
		Reduction gear ratio	—	0.976	—	0.976	—	0.976	—
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid
		Reduction gear ratio	3.900	3.700	3.900	3.700	3.900	3.700	3.700
Reduction gear (Rear drive)	Transfer reduction	Type of gear	—	—	—	—	Helical	Helical	Helical
		Reduction gear ratio	—	—	—	—	1.000	0.948	1.000
	Final reduction	Type of gear	—	—	—	—	Hypoid	Hypoid	Hypoid
		Reduction gear ratio	—	—	—	—	3.900	3.900	3.700
Steering system	Type		Rack and pinion						
	Turns, lock to lock		3.7						
	Minimum turning circle*1 m (ft)		At tire ..... 9.6 (31.5) At bumper ... 10.6 (34.8)						
Suspension	Front		MacPherson strut type, Independent, Coil spring						
	Rear		Semi-trailing arm type, Independent, Coil spring						
Brake	Service brake system		Dual circuit hydraulic with vacuum suspended power unit						
	Front		Ventilated disc brake						
	Rear		Drum brake (Leading & trailing type)				Drum brake (Leading & trailing type)		Disc brake
	Parking brake		Mechanical on front brake						
Tire	Size		155SR13		175/70SR13		175/70SR13		185/70HR13
	Type		Steel belted radial, Tubeless						
Capacity	Fuel tank capacity ℓ (US gal., Imp gal.)		60 (15.9, 13.2)						
	Engine oil	Upper level ℓ (US qt, Imp qt)	4.0 (4.2, 3.5)						
		Lower level ℓ (US qt, Imp qt)	3.0 (3.2, 2.6)						
	Transmission gear oil ℓ (US qt, Imp qt)		2.6 (2.7, 2.3)	—	2.6 (2.7, 2.3)	—	3.3 (3.5, 2.9)	—	3.5 (3.7, 3.1)
	Automatic transmission fluid ℓ (US qt, Imp qt)		—	6.2±0.1 (6.6±0.1, 5.5±0.1)	—	6.2±0.1 (6.6±0.1, 5.5±0.1)	—	6.55±0.1 (6.9±0.1, 5.8±0.1)	—
	AT differential gear oil ℓ (US qt, Imp qt)		—	1.2 (1.3, 1.1)	—	1.2 (1.3, 1.1)	—	1.2 (1.3, 1.1)	—
	4WD rear differential gear oil ℓ (US qt, Imp qt)		—	—	—	—	0.8 (0.8, 0.7)	0.8 (0.8, 0.7)	0.8 (0.8, 0.7)
	Power steering fluid ℓ (US qt, Imp qt)		0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)	0.7 (0.7, 0.6)
	Engine coolant ℓ (US qt, Imp qt)		About 5.5 (5.8, 4.8)						

\*1: Curb to curb

# SPECIFICATIONS

## TOURING WAGON

ITEM			MODEL	FWD				
				GL	GL	GL-10	GL-10 TURBO	
				SPFI 5MT	SPFI 3AT	SPFI 3AT	FPFI 3AT	
Overall length			mm (in)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	
Overall width			mm (in)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	
Overall height			mm (in)	1,385 (54.5)	1,385 (54.5)	1,385 (54.5)	1,385 (54.5)	
Cargo space	Length	at 2 sets	mm (in)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	
		at 5 sets	mm (in)	805 (31.7)	805 (31.7)	805 (31.7)	805 (31.7)	
	Width	at 2 sets	mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	
		at 5 sets	mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	
	Height		mm (in)	935 (36.8)	935 (36.8)	935 (36.8)	935 (36.8)	
	Wheelbase			mm (in)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)	2,465 (97.0)
Tread		Front	mm (in)	1,420 (55.9)	1,420 (55.9)	1,420 (55.9)	1,420 (55.9)	
		Rear	mm (in)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	
Minimum road clearance			mm (in)	140 (5.5)	140 (5.5)	140 (5.5)	140 (5.5)	
Weight	Curb weight	For U.S.A.	Front	kg (lb)	*2 615 (1,355)	*2 630 (1,390)	*3 667 (1,470)	*3 689 (1,520)
			Rear	kg (lb)	*2 494 (1,090)	*2 497 (1,095)	*3 496 (1,095)	*3 499 (1,100)
			Total	kg (lb)	*2 1,109 (2,445)	*2 1,127 (2,485)	*3 1,163 (2,565)	*3 1,188 (2,620)
		For Canada	Front	kg (lb)	*1 612 (1,350)	*1 628 (1,385)	—	*3 689 (1,520)
			Rear	kg (lb)	*1 490 (1,080)	*1 492 (1,085)	—	*3 499 (1,100)
			Total	kg (lb)	* 1,102 (2,430)	*1 1,120 (2,470)	—	*3 1,188 (2,620)

\*1: The weight of power steering is included in C.W.

\*2: The weight of power steering, power window and auto door lock system is included in C.W.

\*3: The weight of air conditioner, power steering, power window, digital instrument panel, cruise control and auto door lock system is included in C.W.

## SPECIFICATIONS

## TOURING WAGON

ITEM			MODEL	4WD					
				GL	GL	GL TURBO	Full time 4WD GL-10 TURBO	Full time 4WD GL-10 TURBO	
				SPFI 5MT D/R	SPFI 3AT	MPSFI 5MT S/R	MPSFI 5MT S/R	MPSFI 4AT	
Overall length			mm (in)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	4,490 (176.8)	
Overall width			mm (in)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	1,660 (65.4)	
Overall height			mm (in)	1,435 (56.5)	1,435 (56.5)	1,435 (56.5)	1,435 (56.5)	1,465 (56.5)	
Cargo space	Length	at 2 sets	mm (in)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	1,645 (64.8)	
		at 5 sets	mm (in)	805 (31.7)	805 (31.7)	805 (31.7)	805 (31.7)	805 (31.7)	
	Width	at 2 sets	mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	
		at 5 sets	mm (in)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	1,360 (53.5)	
	Height	mm (in)	935 (36.8)	935 (36.8)	935 (36.8)	935 (36.8)	935 (36.8)		
	Wheelbase			mm (in)	2,460 (96.9)	2,460 (96.9)	2,460 (96.9)	2,460 (96.9)	2,465 (97.0)
Tread		Front	mm (in)	1,410 (55.5)	1,410 (55.5)	1,410 (55.5)	1,410 (55.5)	1,420 (55.9)	
		Rear	mm (in)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	1,425 (56.1)	
Minimum road clearance			mm (in)	135 (5.3)	135 (5.3)	135 (5.3)	135 (5.3)	160 (6.3)	
Weight	Curb weight	For U.S.A.	Front	kg (lb)	*2 646 (1,425)	*2 653 (1,440)	*3 687 (1,515)	*4 694 (1,530)	*5 744 (1,640)
			Rear	kg (lb)	*2 542 (1,195)	*2 542 (1,195)	*3 542 (1,195)	*4 553 (1,220)	*5 556 (1,225)
			Total	kg (lb)	*2 1,188 (2,620)	*2 1,195 (2,635)	*3 1,229 (2,710)	*4 1,247 (2,750)	*5 1,300 (2,865)
		For Canada	Front	kg (lb)	*1 644 (1,420)	*1 651 (1,435)	—	—	*5 744 (1,640)
			Rear	kg (lb)	*1 538 (1,185)	*1 537 (1,185)	—	—	*5 556 (1,225)
			Total	kg (lb)	*1 1,182 (2,605)	*1 1,188 (2,620)	—	—	*5 1,300 (2,865)

\*1: The weight of power steering is included in C.W.

\*2: The weight of power steering, power window and auto door lock system is included in C.W.

\*3: The weight of air conditioner, power steering, power window and auto door lock system is included in C.W.

\*4: The weight of air conditioner, power steering, power window, digital instrument panel, cruise control, auto door lock and L.S.D. system is included in C.W.

\*5: The weight of air conditioner, power steering, power window, digital instrument panel, cruise control and auto door lock system is included in C.W.