

SUSPENSION TECHNICAL DATA

id025000800100

Front wheel alignment (Unloaded)*¹ [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

Item		Fuel gauge indication				
		Empty	1/4	1/2	3/4	Full
Maximum steering angle [Tolerance ±3°]	Inner	37°48'				
	Outer	30°54'				
Total toe-in	Tire [Tolerance ±4 {0.2}]	2 {0.08}				
	Rim inner [Tolerance ±3 {0.1}]	1.0 {0.04}				
	(degree)	0°10'±0°20'				
Caster angle * ² (Reference value) [Tolerance ±1°]		6°19'	6°21'	6°24'	6°27'	6°29'
Camber angle * ² (Reference value) [Tolerance ±1°]		-0°20'	-0°21'	-0°21'	-0°21'	-0°22'
Steering axis inclination (Reference value)		11°57'	11°58'	11°59'	11°59'	12°00'

*¹ : Engine coolant and engine oil are at specified level. Spare tire, jack and tools are in designated position.

*² : Difference between left and right must not exceed 1°30'.

Front wheel alignment (Unloaded)*¹ [SKYACTIV-D 2.2]

Item		Fuel gauge indication				
		Empty	1/4	1/2	3/4	Full
Maximum steering angle [Tolerance ±3°]	Inner	37°48'				
	Outer	30°54'				
Total toe-in	Tire [Tolerance ±4 {0.2}]	2 {0.08}				
	Rim inner [Tolerance ±3 {0.1}]	1.0 {0.04}				
	(degree)	0°10'±0°20'				
Caster angle * ² (Reference value) [Tolerance ±1°]		6°15'	6°17'	6°20'	6°23'	6°25'
Camber angle * ² (Reference value) [Tolerance ±1°]		-0°20'	-0°21'	-0°21'	-0°21'	-0°22'
Steering axis inclination (Reference value)		11°57'	11°58'	11°59'	11°59'	12°00'

*¹ : Engine coolant and engine oil are at specified level. Spare tire, jack and tools are in designated position.

*² : Difference between left and right must not exceed 1°30'.

Rear wheel alignment (Unloaded)*¹

Item		Fuel gauge indication				
		Empty	1/4	1/2	3/4	Full
Total toe-in	Tire [Tolerance ±4 {0.2}]	2 {0.08}				
	Rim inner [Tolerance ±3 {0.1}]	1.0 {0.04}				
	(degree)	0°10'±0°20'				
Camber angle * ² (Reference value) [Tolerance ±1°]		-0°51'	-0°54'	-0°56'	-0°58'	-1°01'
Thrust angle (Reference value) [Tolerance ±0°48']		0°00'				

*¹ : Engine coolant and engine oil are at specified level. Spare tire, jack and tools are in designated position.

*² : Difference between left and right must not exceed 1°30'.

Suspension

Item	Specification
Front lower arm ball joint stud starting torque	18 N·m {1.8 kgf·m, 13 ft·lbf} max.

Item	Specification
Front lower arm ball joint stud rotational torque	3.2 N·m {33 kgf·cm, 28 in·lbf} max.
Front stabilizer control link ball joint starting torque	0.8—3.5 N·m {8.2—35 kgf·cm, 7.1—30 in·lbf}
Rear stabilizer control link ball joint starting torque	0.8—3.5 N·m {8.2—35 kgf·cm, 7.1—30 in·lbf}

Standard tire and wheel

Item				Specification	
Wheel	Size			17 × 7J	19 × 7J
	Inset (mm {in})			50 {2.0}	
	Pitch circle diameter (mm {in})			114.3 {4.50}	
	Material			Steel Aluminum alloy	Aluminum alloy
Tire	Size			225/65R17 102V	225/55R19 99V
	Air pressure (kPa {bar <psi>})	Front	Up to 3 persons	230 {2.3, <33>} or 250 {2.5, <36>}*3	250 {2.5, <36>}
			Full load	260 {2.6, <38>} or 270 {2.7, <39>}*3	260 {2.6, <38>}
		Rear	Up to 3 persons	230 {2.3, <33>} or 250 {2.5, <36>}*3	250 {2.5, <36>}
			Full load	280 {2.8, <41>} or 290 {2.9, <42>}*3	290 {2.9, <42>}
	Remaining tread (mm {in})			1.6 {0.063} min.	
	Wheel and tire	Lug nut tightening torque	(N·m {kgf·m, ft·lbf})		108—147 {12—14, 80—108}
Wheel and tire runout (mm {in})		Radial direction		1.5 {0.059} max.	
		Lateral direction		Steel:2.5 {0.098} max. Aluminum alloy:2.0 {0.079} max.	2.0 {0.079} max.
Wheel imbalance (g {oz})			Adhesive-type*1: 13 {0.46} max. Knock-type*2: 8 {0.3} max.	Adhesive-type*1: 12 {0.42} max. Knock-type*2: 7 {0.2} max.	

^{*1} : Do not install three or more weights. Do not affix the weights such that they are parallel to each other or overlapping. The total weight of all the weights is **160 g {5.64 oz} or less**.

^{*2} : Do not install three or more weights. One weight is **60 g {2.1 oz} or less** and two weights are **100 g {3.53 oz} or less**.

^{*3} : Verify the tire label on the vehicle.

Temporary spare tire and wheel

Item				Specification	
Wheel	Size			17 × 5 1/2J	
	Inset (mm {in})			45 {1.8}	
	Pitch circle diameter (mm {in})			114.3 {4.50}	
	Material			Steel	
Tire	Size			185/80R17 95M	
	Air pressure (kPa {bar <psi>})			250 {2.5, <36>}	
	Remaining tread (mm {in})			1.6 {0.063} min.	
Wheel and tire	Lug nut tightening torque (N·m {kgf·m, ft·lbf})			108—147 {12—14, 80—108}	