# FRONT WHEEL ALIGNMENT [DIMENSIONS]

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

<u> </u>			Fuel gauge indication						
	Item			1/4	1/2	3/4	Full		
Maximum steering angle		Inner	37°48′						
[Tolerance ±3°]		Outer	30°54′						
Total toe-in	Tire [Tolerance ±4 {0.2}]	(mm {in})	2 {0.08}						
	Rim inner [Tolerance ±3 {0.1}]		1.0 {0.04}						
		0°10′±0°20′							
Caster angle <sup>*2</sup> (Reference value) [Tolerance ±1°]			6°19′	6°21′	6°24′	6°27′	6°29′		
Camber angle <sup>*2</sup> (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′		

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

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

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		Fuel gauge indication							
	iteiii		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}]	(mm (in))	2 {0.08}						
	Rim inner [Tolerance ±3 {0.1}]	(mm {in})	1.0 {0.04}						
		0°10′±0°20′							
_	Caster angle <sup>*2</sup> (Reference value) [Tolerance ±1°]			6°17′	6°20′	6°23′	6°25′		
Camber angl	e <sup>*2</sup> (Reference value) 1°]	ference value) -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′		

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

# Steering Angle Adjustment

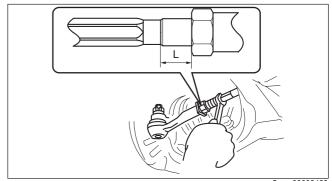
- 1. Loosen the tie-rod end locknuts.
- 2. Remove the steering gear boot clamp.
- 3. Turn the tie rods.

### Standard length L 10.1—23.1 mm {0.4—0.9 in}

- 4. Turn the tie rods equally to provide the correct maximum steering angle.
- 5. Tighten the tie-rod end locknuts.

# Tightening torque 69—98 N·m {7.1—9.9 kgf·m, 51—72 ft·lbf}

6. Verify that the boot is not twisted, and install the boot clamp.



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<sup>\*2 :</sup> Difference between left and right must not exceed 1°30'.

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7. Adjust the toe-in after adjusting the steering angle.

### **Total Toe-in Adjustment**

- 1. Loosen the locknut of the tie-rod end.
- 2. Remove the rack boot clamp.
- 3. Adjust the total toe-in by rotating each tie rod (left and right) in the opposite directions by the same amount respectively.

# Note

- Toe angle changes by **approx**. 4 mm {0.2 in} per one rotation of the tie rod for one wheel.
- Each tie rod has a right-hand thread. When increasing the toe-in angle, rotate the right tie rod toward the front of the vehicle and rotate the left tie rod toward the rear of the vehicle by the same amount.
- 4. Tighten the locknut of the tie-rod end.

# Tightening torque 69—98 N·m {7.1—9.9 kgf·m, 51—72 ft·lbf}

5. Verify that the rack boot does not have any twisting and install the rack boot clamp.