2008 Mazda CX-9 Grand Touring

2008 SUSPENSION Technical Data (Suspension) - Mazda CX-9

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SUSPENSION TECHNICAL DATA

Front wheel alignment [2WD] (Unloaded)*1

FRONT WHEEL ALIGNMENT SPECIFICATION - (2WD) (UNLOADED)

Item				Fuel gauge indication					
Hem			Empty	1/4	1/2	3/4	Full		
Maximum steering angle [Tolerance ± 3°] Inner Outer		38°							
		Outer	32°						
Total toe-in [Tolerance $\pm 4 \{\pm 0.16\}$]		(mm {in})	2 {0.08}						
Total toe-III		(degree)	$0^{\circ}18' \pm 0^{\circ}32'$						
Caster angle ⁽¹⁾ [Tolerance ± 1 °]		3°01' 3°02' 3°03'			3°04'				
Camber angle ⁽¹⁾ [Tolerance ± 1 °]		-0°19' -0°20'		20'	-0°21'				
Steering axis in	clination (Reference value)		11°31'	11°32'	11°33'	11°34'	11°35'		

^{*1 :} Engine coolant and engine oil are at specified level. Jack and tools are in designated position.

Front wheel alignment [AWD] (Unloaded)*1

FRONT WHEEL ALIGNMENT SPECIFICATION - (AWD) (UNLOADED)

	Item				Fuel gauge indication					
ttem			Empty	1/4	1/2	3/4	Full			
Maximum steering angle [Tolerance $\pm 3^{\circ}$]		38°								
		32°								
Total toe-in [Tolerance $\pm 4 \{\pm 0.16\}$]		(mm {in})	2 {0.08}							
Total toe-III		(degree)	$0^{\circ}18' \pm 0^{\circ}32'$							
Caster angle ⁽¹⁾ [Tolerance ± 1 °]			3°02' 3°03' 3°04' 3°			3°05'				
Camber angle ⁽¹⁾ [Tolerance ± 1 °]			-0°19' -0°20' -0°			-0°21'				
Steering axis inc	Steering axis inclination (Reference value)			11°32'	11°33'	11°34'	11°35'			

^{*1 :} Engine coolant and engine oil are at specified level. Jack and tools are in designated position.

Rear wheel alignment [2WD] (Unloaded)*1

REAR WHEEL ALIGNMENT SPECIFICATION - (2WD) (UNLOADED)

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		Fuel ga	uge indi	ication	

⁽¹⁾ Difference between left and right must not exceed 1°30'.

 $^{^{(1)}}$ Difference between left and right must not exceed 1°30'.

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Item			Empty	1/4	1/2	3/4	Full
Total toe-in	[Tolerance $\pm 4 \{\pm 0.16\}$]	(mm {in})	2 {0.08}				
Total toe-III		$0^{\circ}09' \pm 0^{\circ}18'$					
Camber angle ⁽¹⁾ (Reference value) [Tolerance ± 1°]			-0°26'	-0°27'	-0°29'	-0°30'	-0°32'
Thrust angle (Reference value) [Tolerance ± 0°48']					0°	,	

^{*1 :} Engine coolant and engine oil are at specified level. Jack and tools are in designated position.

Rear wheel alignment [AWD] (Unloaded)*1

REAR WHEEL ALIGNMENT SPECIFICATION - (AWD) (UNLOADED)

Itom				Fuel gauge indication					
Item			Empty	1/4	1/2	3/4	Full		
Total toe-in	[Tolerance $\pm 4 \{\pm 0.16\}$]	(mm {in})		2	{0.08}				
Total toe-III		$(degree) 0^{\circ}09' \pm 0^{\circ}$				8'			
Camber angle ⁽¹⁾ (Reference value) [Tolerance $\pm 1^{\circ}$]			-0°27'	-0°28'	-0°30'	-0°31'	-0°33'		
Thrust angle (Reference value) [Tolerance ± 0°48']			0°				•		

^{*1 :} Engine coolant and engine oil are at specified level. Jack and tools are in designated position.

Suspension

SUSPENSION SPECIFICATION

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Item	Specification								
Front lower arm rotational torque	2.62 N.m {26.7 kgf.cm, 23.1 in.lbf} max.								
Front stabilizer control link ball joint starting torque	0.2-2.0 N.m {3-20 kgf.cm, 2-17 in.lbf}								
Rear stabilizer control link ball joint starting torque	0.2-2.0 N.m {3-20 kgf.cm, 2-17 in.lbf}								

Standard tire

TIRE SPECIFICATION

Item				Specification		
		Size		P245/60R18 104H	P245/50R20 102V	
		Air pressure Front (kPa {psi}) Rear		250 {36}	220 (24)	
	Tire			[230 {30}	230 {34}	
	Remaining (mm {in}		(mm {in})	1.6 {0.07}		
		Size	-	18x7 1/2J	20x7 1/2J	
	Wheel	Material		Aluminum alloy		
	Wheel offset		(mm {in})	45 {1.8}		

⁽¹⁾ Difference between left and right must not exceed 1°30'.

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	Wheel pitch circle diameter	(mm {in})	114.3 {4.5}				
	Wheel and tire runout	Lateral direction	2.0 {0.08}				
	(mm {in})	Radial direction	1.5 {0.06}				
Standard tire	Wheel and tire imbalance		Adhesive-type*1: 10 {0.35} max. Knock-type*2: 6 {0.21} max. *1: Total weight exceeds 160 g *2: One balance weight: 60 g { weight exceeds 100 g {3.53 oz} moving the tire around on the r balance weights.	max. Knock-type* 2 : 4 {0.14} max. g {5.65 oz}. 2.12 oz } max . If the total on one side, rebalance after			
	Wheel nut tightening torque	(N.m {kgf.m, ft.bf})	107.8-147.0 {11.0-14.9, 79.6-108.4}				

Temporary spare tire

TIRE SPECIFICATION

		Specification			
		Size		T155/90D 18	195/80R17 99M
	Tire	Air pressure (kPa {psi})		420 {60}	250 {36}
		Remaining treed	(mm {in})	1.6	{0.07}
		Size		18x4T	17x5 1/2J
	Wheel	Material		Steel	
Temporary spare		Wheel offset (mm {in})		40 {1.57}	45 {1.8}
tire		Wheel pitch circle diameter (mm {in})		114.3 {4.5}	
	Wheel	and tire runout	Lateral direction	2.0 {0.08}	
		(mm {in})	1.5 {0.06}		
	Wheel	nut tightening torque	(N.m {kgf.m, ft.bf})		{11.0-14.9, 79.6- 08.4}