

SUSPENSION TECHNICAL DATA

id025000800100

Suspension

Item	Specification
Front lower arm ball joint rotational torque	1.0—4.9 N·m {11—49 kgf·cm, 9—43 in·lbf} Pull scale reading [10—49 N {1.1—4.9 kgf, 3—10 lbf}]
Front stabilizer control link ball joint rotational torque	0.2—0.9 N·m {3—9 kgf·cm, 2—7 in·lbf}
Rear stabilizer control link ball joint rotational torque	0.5—2.0 N·m {6—20 kgf·cm, 5—17 in·lbf}

Front wheel alignment (unloaded)*¹ [ZJ, ZY, Z6, LF, L3, MZ-CD1.6 (Y6) and MZR-CD (RF Turbo)]

Item		Fuel gauge indication				
		Empty	1/4	1/2	3/4	Full
Maximum steering angle [Tolerance ±3°]	Inner	39°48'				
	Outer	32°48'				
Total toe-in	Tire [Tolerance ±4 {±0.16}]	2 {0.08}				
	Rim inner	1±3 {0.04±0.12}				
	(degree)	0°11'±0°11'				
Caster angle* ² [Tolerance ±1°]		2°55'	2°57'	3°00'	3°02'	3°04'
Camber angle* ² [Tolerance ±1°]		−0°39'	−0°39'	−0°40'		−0°41'
Steering axis inclination (Reference value)		13°52'		13°53'		13°55'

*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 [L3 Turbo]

Item		Fuel gauge indication				
		Empty	1/4	1/2	3/4	Full
Maximum steering angle [Tolerance ±3°]	Inner	36°00'				
	Outer	30°12'				
Total toe-in	Tire [Tolerance ±4 {±0.16}]	2 {0.08}				
	Rim inner	1±3 {0.04±0.12}				
	(degree)	0°11'±0°11'				
Caster angle* ² [Tolerance ±1°]		3°00'	3°01'	3°03'	3°05'	3°07'
Camber angle* ² [Tolerance ±1°]		−0°54'		−0°55'		−0°55'
Steering axis inclination (Reference value)		14°17'		14°18'		

*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 [ZJ, ZY, Z6, LF, L3, MZ-CD1.6 (Y6) and MZR-CD (RF Turbo)]

Item		Fuel gauge indication				
		Empty	1/4	1/2	3/4	Full
Total toe-in	Tire [Tolerance ±4 {±0.16}]	2 {0.08}				
	Rim inner	1±3 {0.04±0.12}				
	(degree)	0°11'±0°11'				
Camber angle* ² (Reference value) [Tolerance ±1°]		−1°20'	−1°22'	−1°24'	−1°26'	−1°28'
Thrust angle (Reference value) [Tolerance ±0°48¢]		0°				

*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 [L3 Turbo]

Item			Fuel gauge indication				
			Empty	1/4	1/2	3/4	Full
Total toe-in	Tire [Tolerance ± 4 { ± 0.16 }]	(mm {in})	2 {0.08}				
	Rim inner		1 \pm 3 {0.04 \pm 0.12}				
		(degree)	0°11'±0°11'				
Camber angle*2 (Reference value) [Tolerance $\pm 1^\circ$]			-1°34'	-1°36'	-1°37'	-1°39'	-1°41'
Thrust angle (Reference value) [Tolerance $\pm 0^\circ 48'$]			0°				

*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'**.

Wheel and Tires

Standard tire (Australian specs.)

Item			Specification				
Tire	Size		195/65R15 91V		205/55R16 89V	205/50R17 89V	215/45R18 89W
	Air pressure (kPa {(bar), <psi>})	Front	230 {(2.3) <33>}		MZR-CD (RF Turbo): 230 {(2.3) <33>} Except MZR-CD (RF Turbo): 220 {(2.2) <32>}	220 {(2.2) <32>}	230 {(2.3) <33>}
		Rear	MZR-CD (RF Turbo): 230 {(2.3) <33>} Except MZR-CD (RF Turbo): 220 {(2.2) <32>}				
	Remaining tread	(mm {in})	1.6 {0.07}				
Wheel	Size		15x6J		16x6 1/2J	17x6 1/2J	18x7J
	Material		Steel	Aluminum alloy			
	Wheel offset	(mm {in})	52.5 {2.07}				
	Wheel pitch circle diameter	(mm {in})	114.3 {4.5}				
Wheel and tire runout (mm {in})		Lateral direction	2.5 {0.10}	2.0 {0.08}			
		Radial direction	1.5 {0.06}				
Wheel and tire imbalance (g {oz})		Knock-type*2: 9 {0.31} max.	Adhesive-type*1: 14 {0.49} max. Knock-type*2: 9 {0.31} max.	Adhesive-type*1: 13 {0.46} max. Knock-type*2: 8 {0.28} max.	Adhesive-type*1: 11 {0.39} max. Knock-type*2: 7 {0.25} max.	Adhesive-type*1: 10 {0.35} max. Knock-type*2: 6 {0.21} max.	
		*1: Total weight must not exceed 160 g {5.65 oz} . *2: One balance weight: 60 g {2.12 oz} max. If the total weight exceeds 100 g {3.53 oz} on one side, rebalance after moving the tire around on the rim. Do not use three or more balance weights.					
Wheel nut tightening torque		(N·m {kgf·m, ft·bf})	88.2—117.6 {9.00—11.99, 65.06—86.73}				

Standard tire (European (L.H.D., U.K.) specs.)

Item				Specification				
Tire	Size			195/65R15 91H	205/55R16 91V	205/50R17 89V	215/45R18 93Y	
	Air pressure (kPa {(bar), <psi>})	Front	Up to 3 persons	MZ-CD1.6 (Y6): 230 {(2.3) <33>} Except MZ-CD1.6 (Y6): 220 {(2.2) <32>}	MZR-CD (RF Turbo): 230 {(2.3) <33>} Except MZR-CD (RF Turbo): 220 {(2.2) <32>}		230 {(2.3) <33>}	
			Full load	230 {(2.3) <33>}	230 {(2.3) <33>}	MZR-CD (RF Turbo): 240 {(2.4) <35>} Except MZR-CD (RF Turbo): 230 {(2.3) <33>}	240 {(2.4) <35>}	
		Rear	Up to 3 persons	220 {(2.2) <32>}	MZR-CD (RF Turbo): 230 {(2.3) <33>} Except MZR-CD (RF Turbo): 220 {(2.2) <32>}		220 {(2.2) <32>}	
			Full load	310 {(3.1) <45>}				
	Remaining tread (mm {in})			1.6 {0.07}				
	Wheel	Size			15×6J	16×6 1/2J	17×6 1/2J	18×7J
Material			Steel	Aluminum alloy				
Wheel offset (mm {in})			52.5 {2.07}					
Wheel pitch circle diameter (mm {in})			114.3 {4.5}					
Wheel and tire runout (mm {in})		Lateral direction		2.5 {0.10}	2.0 {0.08}			
		Radial direction		1.5 {0.06}				
Wheel and tire imbalance (g {oz})				Knock-type*2: 9 {0.31} max.	Adhesive-type*1: 14 {0.49} max. Knock-type*2: 9 {0.31} max.	Adhesive-type*1: 13 {0.46} max. Knock-type*2: 8 {0.28} max.	Adhesive-type*1: 11 {0.39} max. Knock-type*2: 7 {0.25} max.	Adhesive-type*1: 10 {0.35} max. Knock-type*2: 6 {0.21} max.
				*1: Total weight must not exceed 160 g {5.65 oz} .				
				*2: One balance weight: 60 g {2.12 oz} max . If the total weight exceeds 100 g {3.53 oz} on one side, rebalance after moving the tire around on the rim. Do not use three or more balance weights.				
Wheel nut tightening torque		(N·m {kgf·m, ft·bf})		88.2—117.6 {9.00—11.99, 65.06—86.73}				

Standard tire (General (L.H.D., R.H.D.) specs.)

Item				Specification			
Tire	Size			195/65R15 91V		205/55R16 91V	205/50R17 89V
	Air pressure (kPa {(bar), <psi>})	Front	Up to 3 persons	220 {(2.2) <32>}			
			Full load	230 {(2.3) <33>}			
		Rear	Up to 3 persons	220 {(2.2) <32>}			
			Full load	310 {(3.1) <45>}			
	Remaining tread (mm {in})			1.6 {0.07}			
Wheel	Size			15x6J		16x6 1/2J	17x6 1/2J
	Material			Steel	Aluminum alloy		
	Wheel offset (mm {in})			52.5 {2.07}			
	Wheel pitch circle diameter (mm {in})			114.3 {4.5}			
Wheel and tire runout (mm {in})		Lateral direction		2.5 {0.10}	2.0 {0.08}		
		Radial direction		1.5 {0.06}			

Item		Specification			
Wheel and tire imbalance	(g {oz})	Knock-type*2: 9 {0.31} max.	Adhesive-type*1: 14 {0.49} max. Knock-type*2: 9 {0.31} max.	Adhesive-type*1: 13 {0.46} max. Knock-type*2: 8 {0.28} max.	Adhesive-type*1: 11 {0.39} max. Knock-type*2: 7 {0.25} max.
		*1: Total weight must not exceed 160 g {5.65 oz} . *2: One balance weight: 60 g {2.12 oz} max. If the total weight exceeds 100 g {3.53 oz} on one side, rebalance after moving the tire around on the rim. Do not use three or more balance weights.			
Wheel nut tightening torque	(N·m {kgf·m, ft·bf})	88.2—117.6 {9.00—11.99, 65.06—86.73}			

Spare tire

Item		Specification		
Tire	Size	T115/70D15	T125/70D16	T125/70D17
	Air pressure (kPa {(bar), <psi>})	420 {(4.2) <60>}		
	Remaining tread (mm {in})	1.6 {0.07}		
Wheel	Size	15x4T	16x4T	17x4T
	Material	Steel		
	Wheel offset (mm {in})	45 {1.8}	40 {1.6}	
	Wheel pitch circle diameter (mm {in})	114.3 {4.5}		
Wheel and tire runout (mm {in})		Lateral direction	2.5 {0.10}	
		Radial direction	2.0 {0.08}	
Wheel nut tightening torque		(N·m {kgf·m, ft·bf})	88.2—117.6 {9.00—11.99, 65.06—86.73}	