

2012 - Mazda6 - Suspension

FRONT WHEEL ALIGNMENT

Specification (Unloaded)* 1

Front wheel alignment

Item		Specification				
Fuel gauge indication		Empty	1/4	1/2	3/4	Full
Maximum steering angle [Tolerance ±3°]	Inner	38°54′				
	Outer	32°36′				
Total toe-in	(mm {in})	Tire: 2±4 {0.08±0.16}, Rim inner: 1±3 {0.04±0.12}				
	(degree)	0°10′±20′				
Caster angle*2 (Reference value) [Tolerance ±1°]	MZR 2.5	3°37′	3°38′	3°39′	3°41′	3°42′
	MZI 3.7 V6	3°34′	3°35′	3°37′	3°38′	3°40′
Camber angle*2 (Reference value) [Tolerance ±1°]	MZR 2.5	-0°09′	-0°10′	-0°12′	-0°13′	-0°15′
	MZI 3.7 V6	-0°10′	-0°11′		-0°14′	-0°16′
Steering axis inclination (Reference value) [Tolerance ±1°]	MZR 2.5	6°31′	6°32′	6°34′	6°36′	6°37′
	MZI 3.7 V6	6°32′	6°33′			6°38′

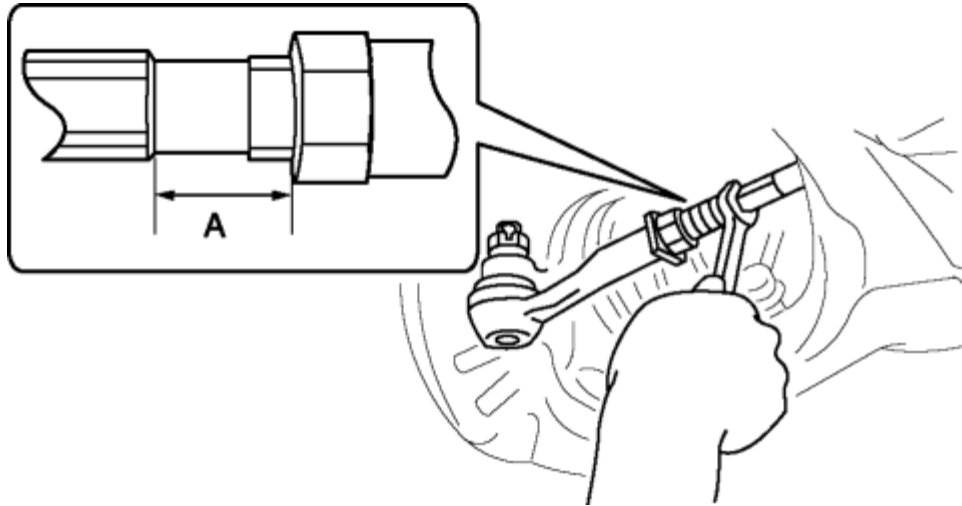
*1
Engine coolant and engine oil are at specified level. Spare tire, jack and tools are in designated position.

*2

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

Maximum 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

- 15.7—22.7 mm {0.619—0.893 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.
7. Adjust the toe-in after adjusting the steering angle.

Total Toe-in Adjustment

1. Center the steering wheel and confirm that the vehicle wheels/tires are pointing straight.
2. Loosen the left and right tie-rod end locknuts and turn the tie-rods equally. Both tie rods are right threaded, so turning the right tie-rod toward the front of the vehicle and the left toward the rear increases toe-in.

NOTE:

- Turning both tie-rods one complete turn changes toe-in by **about 6 mm { 0.24 in} (0°36')**.

3. Tighten the tie-rod end locknuts to the specified torque.

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

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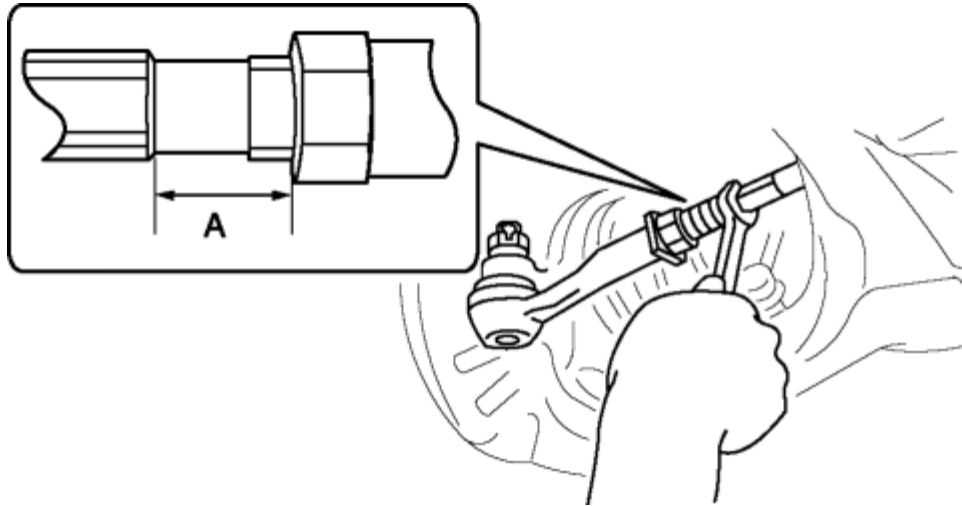
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