

Subject: STEERING PULL / DRIFT	Bulletin No: 02-003/07
	Last Issued: 4/17/2007

APPLICABLE MODEL(S)/VINS

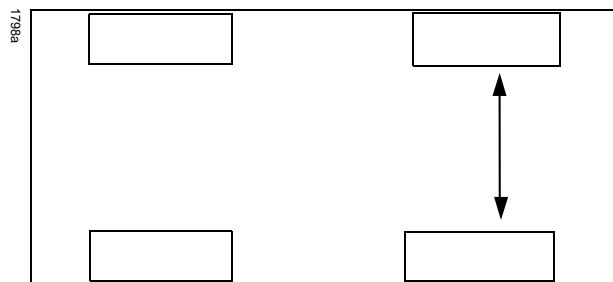
2007 CX-9

DESCRIPTION

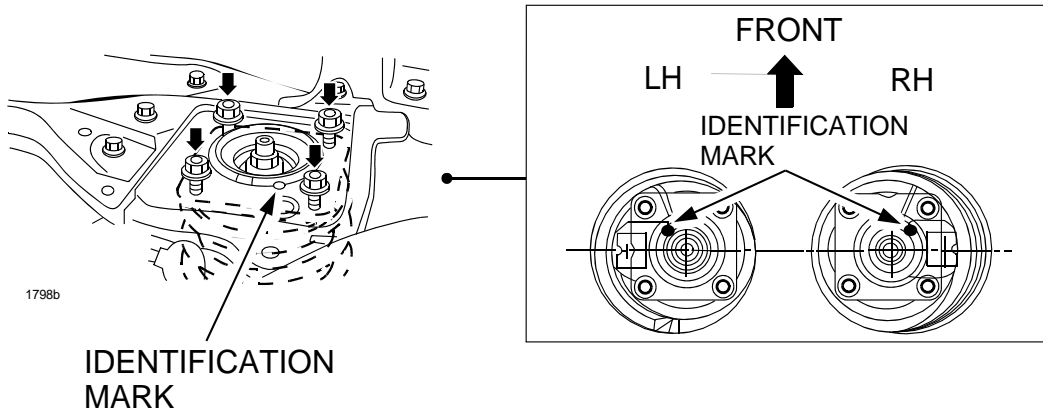
Some customers may complain that the vehicle pulls to the left or right during normal driving conditions. Customers having this concern should have their vehicle repaired using the following repair procedure.

REPAIR PROCEDURE

1. Test drive vehicle and verify customer concern.
2. Confirm pull/drift is not caused by the following factors:
 - Road crown or wheel track during constant speed driving.
 - Different size tires or uneven tire wear between left and right tires.
 - Brake drag on any wheel.
 - Excessive ball joint clearance or steering linkage play.
3. Check tire pressure. Front and Rear Cold Tire Specification = 36 psi (18-inch tire), 34 psi (20-inch tire)
 - If tire pressure is too low or too high, correct tire pressure as necessary and test drive vehicle again.
 - If vehicle no longer pulls/drifts, return vehicle to customer and explain the importance of proper tire inflation to the customer.
 - If vehicle pulls/drifts, go to next step.
 - If tire pressure is correct, go to next step.
4. Swap left and right front wheels/tires and check for damage or deformation of control arms, brackets, or bushings. If any item is damaged or deformed, repair as necessary. Test drive vehicle.
 - If vehicle no longer pulls, return vehicle to customer or dealer inventory.
 - If no improvement is noticed and vehicle still pulls or drifts, go to next step.



5. Confirm position of left and right strut mounting rubber identification marks. Identification marks should be positioned as shown.
 - a. Remove the left-side windshield wiper arm.
 - b. Partially pull back the cowl grill.



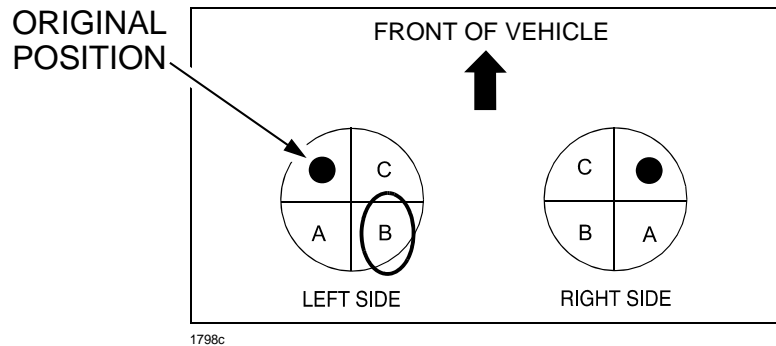
6. Check wheel alignment of the vehicle. Refer to ALIGNMENT SPECIFICATION CHARTS for 2WD or 4WD vehicle.
7. Confirm the direction of vehicle pulling (left or right) and adjust camber and caster angles at the same time.
8. Adjust the strut mounting rubber as follows:
 - a. Remove the left-side windshield wiper arm.
 - b. Partially pull back the cowl grill.
 - c. Jack up front of vehicle and support on safety stands.
 - d. Remove mounting rubber nuts.
 - e. Push shock absorber and coil spring assembly downward, and turn identification mark to desired position.

Adjustment Value From Original Position

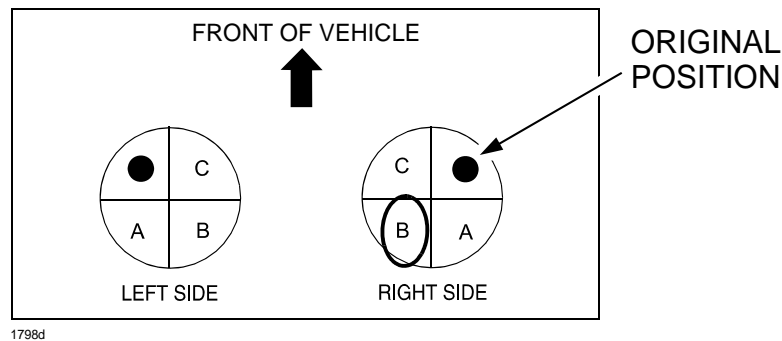
Identification Mark Position	Camber Angle	Caster Angle
A	0°	-0° 22'
B	+0° 22'	-0° 22'
C	+0° 22'	0°

NOTE:

- If the vehicle pulls right, rotate the left side strut mounting rubber 180 degrees so the position of the "identification mark" is inside the circle. (Position B)



- If the vehicle pulls left, rotate the right side strut mounting rubber 180 degrees so the position of the "identification mark" is inside the circle. (Position B)



- f. After adjustment of mounting rubber, install components in reverse order of removal.
- g. Tighten mounting rubber nuts to specified torque.
Tighten Torque: 34.1 – 46.2 ft.lb (46.1 – 62.7 N.m)
9. Adjust front toe to center of the specification as much as possible. Confirm all the other wheel alignment items are within specification. Test drive vehicle to verify the repair.
10. If the vehicle starts pulling/drifts to the other side, rotate the front strut mounting rubber back from Position B to C, by 90 degrees.
11. Test drive and verify repair.

ALIGNMENT SPECIFICATION CHARTS

NOTE: To convert “minutes” to “degrees”, divide by 60. **Example: 27’ divided by 60 = 0.45°**

FRONT WHEEL ALIGNMENT

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

Item		Fuel gauge indication				
		Empty	1/4	1/2	3/4	Full
Maximum steering angle [Tolerance ±3°]	Inner	38°				
	Outer	32°				
Total toe-in [Tolerance ±4 {±0.16}]	(mm {in})	2 {0.08}				
	(degree)	0°09'±0°18'				
Caster angle ^{*2} [Tolerance ±1°]		3°01'	3°02'	3°03'	3°04'	3°04'
Camber angle ^{*2} [Tolerance ±1°]		-0°19'		-0°20'		-0°21'
Steering axis inclination (Reference value)		11°31'	11°32'	11°33'	11°34'	11°35'

*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 [AWD] (Unloaded)^{*1}

Item		Fuel gauge indication				
		Empty	1/4	1/2	3/4	Full
Maximum steering angle [Tolerance ±3°]	Inner	38°				
	Outer	32°				
Total toe-in [Tolerance ±4 {±0.16}]	(mm {in})	2 {0.08}				
	(degree)	0°09'±0°18'				
Caster angle ^{*2} [Tolerance ±1°]		3°02'	3°03'	3°04'	3°04'	3°05'
Camber angle ^{*2} [Tolerance ±1°]		-0°19'		-0°20'		-0°21'
Steering axis inclination (Reference value)		11°31'	11°32'	11°33'	11°34'	11°35'

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

Item			Fuel gauge indication				
			Empty	1/4	1/2	3/4	Full
Total toe-in	[Tolerance ± 4 [± 0.16]]	(mm {in})	2 {0.08}				
		(degree)	0°09'±0°18'				
Camber angle *2 (Reference value) [Tolerance $\pm 1^\circ$]			-0°27'	-0°28'	-0°30'	-0°31'	-0°33'
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'.

Rear wheel alignment [AWD] (Unloaded) *1

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

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WARRANTY INFORMATION**NOTE:**

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair. Refer to the Warranty Wizard for warranty term information.
- Additional diagnostic time cannot be claimed for this repair.

	Steps 1 - 4	Steps 1 - 9	Steps 1 - 11
Warranty Type	A	A	A
Symptom Code	32	32	32
Damage Code	9J	9J	9J
Part Number Main Cause	7777-34-006	7777-34-006	7777-34-006
Quantity	0	0	0
Operation Number / Labor Hours:	XXC07XA1 / 0.8 Hrs	XXC07XA2 / 2.3 Hrs	XXC07XA3 / 2.8 Hrs