WHEEL ALIGNMENT

< PERIODIC MAINTENANCE >

WHEEL ALIGNMENT

Inspection

INFO10-00000000004670321

DESCRIPTION

Measure wheel alignment under unladen conditions.

"Unladen conditions" means that fuel, engine coolant, and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

GENERRAL INFORMATION AND RECOMMENDATIONS

· A four-wheel thrust alignment should be performed.

- This type of alignment is recommended for any NISSAN/INFINITI vehicle.

- The four-wheel "thrust" process helps ensure that the vehicle is properly aligned and the steering wheel is centered.
- The alignment rack itself should be capable of accepting any NISSAN/INFINITI vehicle.

- The rack should be checked to ensure that it is level.

Make sure the machine is properly calibrated.

- Your alignment equipment should be regularly calibrated in order to give correct information.

- Check with the manufacturer of your specific equipment for their recommended Service/Calibration Sched-

ALIGNMENT PROCESS

IMPORTANT:

Use only the alignment specifications listed in this Service Manual.

- · When displaying the alignment settings, many alignment machines use "indicators": (Green/red, plus or minus, Go/No Go). Never use these indicators.
- The alignment specifications programmed into your machine that operate these indicators may not be cor-

- This may result in an ERROR.

- · Some newer alignment machines are equipped with an optional "Rolling Compensation" method to "compensate" the sensors (alignment targets or head units). Never use this "Rolling Compensation" method.
- Use the "Jacking Compensation Method". After installing the alignment targets or head units, raise the vehicle and rotate the wheels 1/2 turn both ways.
- See Instructions in the alignment machine you're using for more information on this.

PRELIMINARY CHECK

Check the following:

· Tires for improper air pressure and wear.

- Road wheels for runout. Refer to WT-95, "Inspection".
- Wheel bearing axial end play. Refer to RAX-5, "Inspection"
- Ball joint axial end play of suspension arm. Refer to RSU-15. "Inspection".

Shock absorber operation.

Each mounting point of axle and suspension for looseness and deformation.

- · Each of front lower link, rear lower link, radius rod, rear suspension member, suspension arm and shock absorber for cracks, deformation, and other damage.
- Vehicle height (posture).

ADJUSTMENT

Camber

 If outside the standard value, adjust with adjusting bolt (1) in front lower link (2).

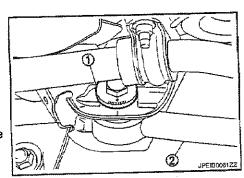
Standard

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Camber: Refer to RSU-26, "Wheel Alignment".

After adjusting camber, be sure to check toe-in.

- If camber is not still within the specification, inspect and replace any damaged or worn suspension parts.



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2009 G37 Coupe

REAR LOWER LINK & COIL SPRING

< REMOVAL AND INSTALLATION >

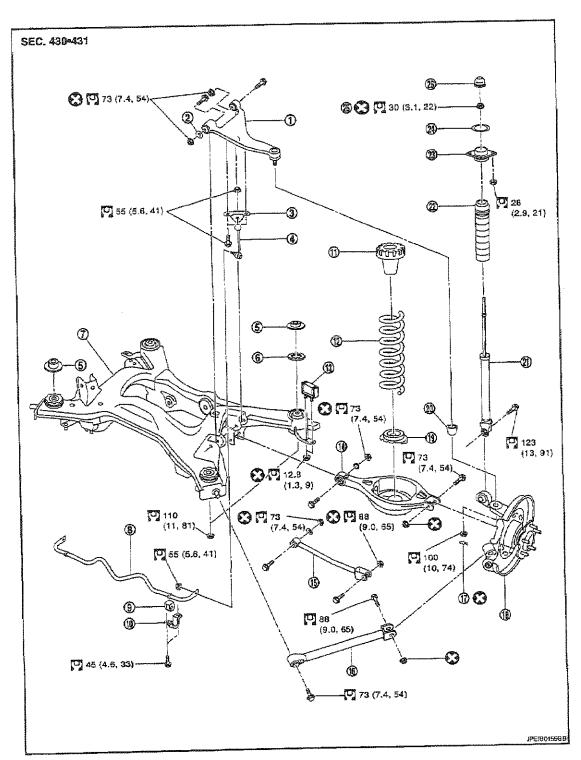
REMOVAL AND INSTALLATION

REAR LOWER LINK & COIL SPRING

Exploded View

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REAR LOWER LINK & COIL SPRING

< REMOVAL AND INSTALLATION >

1.	Suspension arm	2.	Stopper rubber	3.	Stabilizer connecting rod mounting bracket	Å
4.	Stabilizer connecting rod	5.	Upper stopper (4WD model)	6.	Mount stopper	
7.	Suspension member	8.	Stabilizer bar	9.	Stabilizer bushing	8
10.		11.	Upper seat	12.	Coil spring	
	Damper assembly (A/T model)	14.	Rear lower link	15.	Front lower link	
16.	Radius rod	17.	Cotter pin	18.	Axle assembly	C
	Rubber seat	20.	Ball seat	21.	Shock absorber	
	Bound bumper cover	23.	Shock absorber mounting bracket	24.	Mounting seal	
25.	Piston rod lock nut	26.	Cap			O
Ref	er to <u>GI-4. *Components*</u> for symbols i	n the	figure.			

Removal and Installation

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REMOVAL

1. Remove tires with power tool.

Set suitable jack under rear lower link to relieve the coil spring tension.

 Loosen rear lower link mounting bolts and nuts (rear suspension member side), and then remove rear lower link mounting bolts and nuts (axle housing side) with power tool.

4. Slowly lower jack, then remove upper seat, coil spring and rubber sheet from rear lower link.

5. Remove rear lower link mounting bolts and nuts (rear suspension member side) to remove rear lower link with power tool.

INSTALLATION

Note the following, and install in the reverse order of removal.

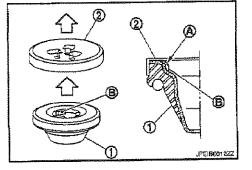
· Make sure that upper seat is attached as shown in the figure.

CAUTION:

Make sure that the projecting parts (A) on upper seat (1) inside is securely fitted on the bracket (2) tabs (B).

⇔: Body

 Match up rubber seat indentions and rear lower link grooves and attach.

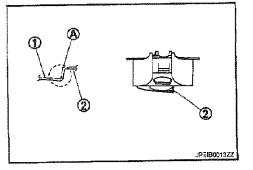


Install the coil spring by aligning the lower end of the large diameter side to the step (A) between the rubber seat (1) and the rear lower link (2).

CAUTION:

Make sure spring is not up side down. The top and bottom are indicated by paint color.

 Perform the final tightening of rear suspension member and axle installation position (rubber bushing) under unladen condition with tires on level ground.



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Inspection

INSPECTION AFTER REMOVAL

Check rear lower link, bushing and coil spring for deformation, crack, and damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

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2009 G37 Coupe

SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Wheel Alignment

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Item			Standard	
		Minimum	-1° 45′ (-1.75°)	
Camber Degree mínute (Decimal degree)		Nominal	-1° 15' (-1.25°)	
		Maximum	-0° 45′ (-0.75°)	
		Minimum	0 mm (0 in)	
	Distance	Nominal	1n 2.8 mm (0.110 in)	
		Maximum	In 5.6 mm (0.220 in)	
otal toe-in	Angle (left wheel or right wheel)	Minimum	0° 00′ (0.00°)	
		Nominal	In 0° 07′ (0.12°)	
:	Degree minute (Decimal degree)	Maximum	In 0° 14′ (0.23°)	

Measure value under unladen* conditions.

Ball Joint

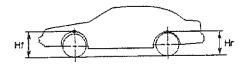
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Item	Standard		
Swing torque	0.5 - 3.4 N·m (0.06 - 0.34 kg-m, 5 - 30 in-lb)		
Measurement on spring balance (cotter pinhole position)	8.1 – 54.8 N (0.83 – 5.6 kg, 1.82 – 12.32 lb)		
Rotating torque	0.5 - 3.4 N·m (0.06 - 0.34 kg-m, 5 - 30 in-lb)		
Axial end play	0 mm (0 in)		

Wheelarch Height

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		AWD		
Applied model	Except for s	ports models	For sports models	
Wheel size	18 inch	19 inch		18 inch
Front (Hf)	712 mm (28.03 in)	715 mm (28.15 in)	716 mm (28.19 in)	726 mm (28.58 in)
Rear (Hr)	702 mm (27.64 in)	705 mm (27.76 in)	706 mm (27.80 in)	718 mm (28.27 in)



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