SECTION REAR SUSPENSION

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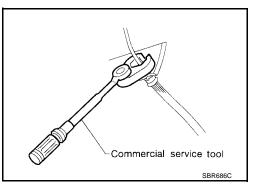
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PRECAUTIONS

Precautions

- When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground.
 *: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
- After installing removed suspension parts, check wheel alignment and adjust if necessary.



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PREPARATION

PREPARATION Commercial Service Tools

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Tool name		Description	
1 Flare nut crowfoot 2 Torque wrench	₿~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Removing and installing each brake piping a: 10 mm (0.39 in)	В
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NOISE VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart

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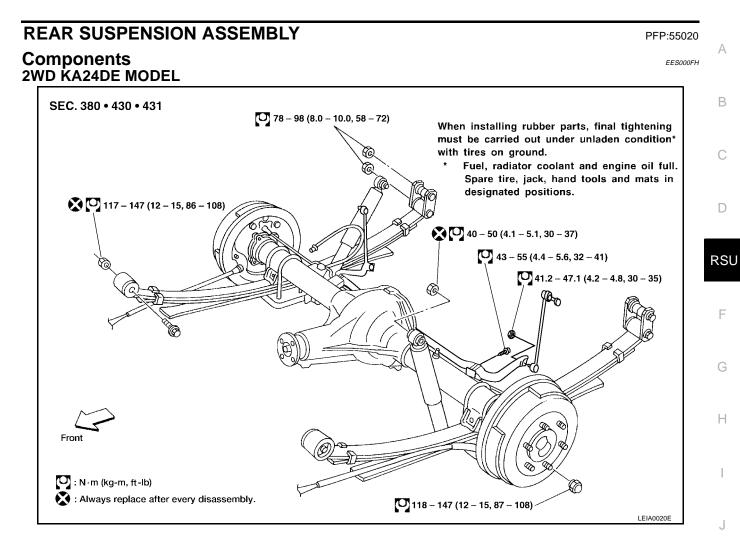
EES000FG

Use the chart below to help you find the cause of the symptom. If necessary, repair or replace these parts.

Reference page		RSU-5	<u>RSU-7</u>	RSU-7	1	<u>RSU-7</u>	<u>RSU-7</u>	RSU-12	<u>WT-3</u>	<u>WT-3</u>	1	<u>WT-3</u>	I	<u>WT-3</u>	<u>PR-3</u>	<u>PR-3</u>	RAX-5	<u>RAX-5</u>	Refer to SUSPENSION in this chart.	Refer to TIRES in this chart.	Refer to ROAD WHEEL in this chart.	<u>BR-6</u>	PS-5	
S		ible Cause and PECTED TS	Improper installation, looseness	Shock absorber deformation, damage or deflection	Bushing or mounting deterioration	Parts interference	Spring fatigue	Suspension looseness	Stabilizer bar fatigue	Imbalance	Incorrect air pressure	Uneven tire wear	Deformation or damage	Non-uniformity	Incorrect tire size	PROPELLER SHAFT	DIFFERENTIAL	DRIVE SHAFT	AXLE	SUSPENSION	TIRES	ROAD WHEEL	BRAKES	STEERING
		Noise	×	×	×	×	×	×								×	×	×	×		×	×	×	×
	_	Shake	×	×	×	×		×								×		×	×		×	×	×	×
	SUSPENSION	Vibration	×	×	×	×	×									×		×	×		×			×
		Shimmy	×	×	×	×													×		×	×	×	×
		Judder	×	×	×														×		×	×	×	×
	SI	Poor quality ride or han- dling	×	×	×	×	×		×										×		×	×		
		Noise	×							×	×	×	×	×		×	×	×	×	×		×	×	×
		Shake	×							×	×	×	×		×	×		×	Х	×		×	×	×
tom	S	Vibration									×				×	×		×	Х	×				×
Symptom	TIRES	Shimmy	×							×	×	×	×	×	×				×	×		×	×	×
Ś	F	Judder	×							×	×	×	×		×				×	×		×	×	×
		Poor quality ride or han- dling	×							×	×	×	×		×				×	×		×		
		Noise	×							×			×			×	×	×	×	×	×		×	×
		Shake	×							×			×			×		×	×	×	×		×	×
	ROAD WHEEL	Shimmy, Jud- der	×							×			×						×	×	×		×	×
	RO	Poor quality ride or han- dling	×							×			×						×	×	×			

 \times : Applicable

REAR SUSPENSION ASSEMBLY

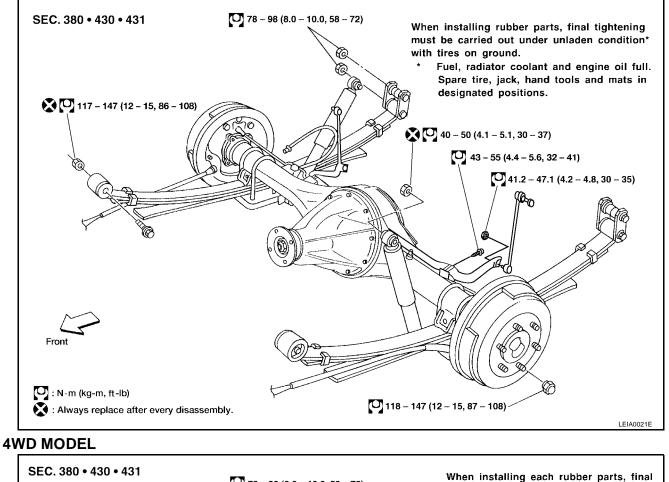


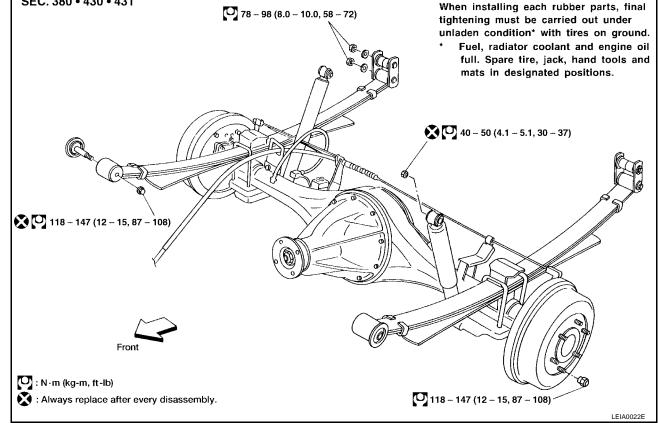
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REAR SUSPENSION ASSEMBLY

2WD VG33E AND VG33ER MODEL





ON-VEHICLE SERVICE

Rear Suspension

(10)

(lo

(8)

16 - 22 (1.6 - 2.2,

40 - 50 (4.1 - 5.1, 30 - 37)

2.

5.

8.

11.

12 - 16)

ON-VEHICLE SERVICE

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117 – 147 (12 – 15, 86 – 108)

Front

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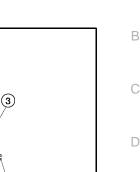
Component

SEC. 431

Front

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(8.0 - 10.0, 58 - 72)

78 - 98

(6)

(5)

40 - 50 (4.1 - 5.1, 30 - 37)

flange nut only)

(13) Late production (coarse thread-

🔁 🔽 45 – 56 (4.6 – 5.7, 34

Rear spring plate

Shock absorber

Rear spring bushing

12. Shock absorber (left side)

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3.

6.

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CAUTION:

1.

4.

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💟 : N · m (kg-m, ft-lb)

Bumper

: Always replace after every disassembly.

Rear spring bushing

Rear spring pad

10. Rear spring clip U-bolt

13. Nut (and washer if equipped)

When installing the rubber components, the final tightening of the nuts and bolts must be done with the vehicle in an unladen condition (the fuel, engine coolant, and engine oil at full; the spare tire, jack, hand tools and mats in their designated positions) with the tires on the ground.

(13) Early production (fine thread-

49.1 - 58.9 (5.0 - 6.0, 37 - 43)

nut with washer)

Rear spring shackle

Rear spring front bolt

Shock absorber (right side)

Rear leaf spring

NOTE:

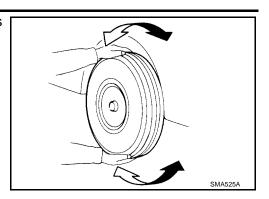
The early production rear spring clip U-bolt is a fine thread with a washer and nut. The late production rear spring clip U-bolt is a coarse thread with a self-locking flange nut, a new flange nut must be used for installation.

Rear Suspension Parts

- EES000KK
- Check the rear suspension parts for any excessive play, cracks, wear, and other damage.

ON-VEHICLE SERVICE

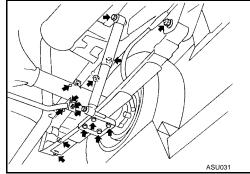
Shake each rear wheel to check for any excessive play as shown.



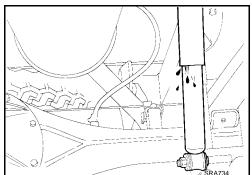
 Tighten all of the nuts and bolts to the specified torque. Refer to <u>RSU-7, "Component"</u>.

CAUTION:

When installing the rubber components, the final tightening of the nuts and bolts must be done with the vehicle in an unladen condition (the fuel, engine coolant, and engine oil at full; the spare tire, jack, hand tools and mats in their designated positions) with the tires on the ground.



Check the shock absorber for oil leakage and other damage as shown.



• Check the shock absorber bushings for excessive wear and other damage.

SHOCK ABSORBER

SHOCK ABSORBER

Re	Removal and Installation							
1. 2.	Remove shock absorber by disconnecting upper and lower end. Install in the reverse order of removal.		В					
	Refer to FSU-5, "Components"							
In	spection	EES000F4	С					
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LEAF SPRING

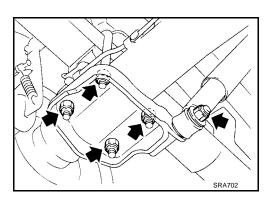
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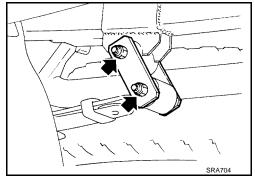
Removal

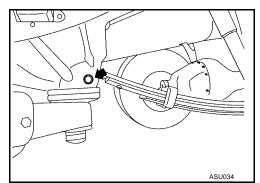
2.

1. Disconnect shock absorber lower end, and remove U-bolts. Support axle with jack stand prior to removing leaf spring. EES000F5

EES000F6







3. Remove the front pin.

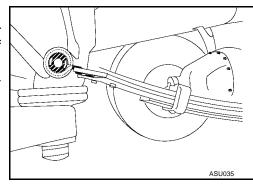
4. Remove the leaf spring.

Remove the spring shackle.

Inspection

- Check leaf spring for cracks. Replace if necessary.
- Check front bracket and pin, shackle, U-bolts and spring pad for wear, cracks, straightness and damaged threads. Replace if necessary.
- Check all bushings for deformation and cracks. Replace if necessary.

(4WD models: Rear spring front bushing) Make sure that front bushing is properly installed.

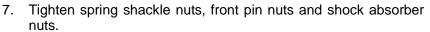


Installation

- 1. Apply soapsuds to rubber bushing.
- 2. Install spring shackle and front pin, and finger tighten the nuts.
- 3. Install spring pad and nuts under leaf spring or axle case.
- Tighten U-bolt mounting nuts diagonally.
 Tighten U-bolts so that the lengths of all U-bolts under spring pad are the same.

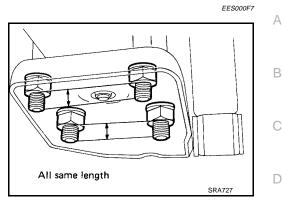
Refer to FSU-8, "Component" .

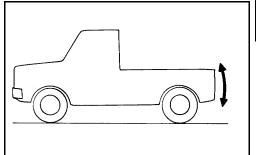
- 5. Install shock absorber, and finger tighten the nuts.
- 6. Remove stands and bounce the vehicle to stabilize suspension. (Unladen)

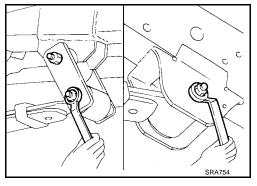


When installing rubber parts, final tightening must be carried out under unladen condition* with tires on the ground. * Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

Refer to FSU-8, "Component" .









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STABILIZER BAR

STABILIZER BAR

STABILIZER BAR	PFP:54611
Removal	EES000F8
Remove stabilizer bar connecting bolts and clamp bolts.	
Inspection	EES000F9
 Check stabilizer bar for twist and deformation. Check rubber bushing for cracks, wear and deterioration. Replace if necessary. 	
Installation	EES000FA
Install in the reverse order of removal.	

Refer to <u>RSU-5, "Components"</u>.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS) General Specifications (Rear)					
Shock absorber type	Double-acting hydraulic	В			

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