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CONTENTS

Precautions PREPARATION Commercial Service Tools NOISE VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart REAR SUSPENSION ASSEMBLY Components 2WD KA24DE MODEL 2WD VG33E AND VG33ER MODEL 4WD MODEL ON-VEHICLE SERVICE Component Rear Suspension Parts	PRECAUTIONS	2
Commercial Service Tools NOISE VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart REAR SUSPENSION ASSEMBLY Components 2WD KA24DE MODEL 2WD VG33E AND VG33ER MODEL 4WD MODEL ON-VEHICLE SERVICE Component	Precautions	2
NOISE VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart REAR SUSPENSION ASSEMBLY Components 2WD KA24DE MODEL 2WD VG33E AND VG33ER MODEL 4WD MODEL ON-VEHICLE SERVICE Component	PREPARATION	3
TROUBLESHOOTING NVH Troubleshooting Chart REAR SUSPENSION ASSEMBLY Components 2WD KA24DE MODEL 2WD VG33E AND VG33ER MODEL 4WD MODEL ON-VEHICLE SERVICE Component	Commercial Service Tools	3
NVH Troubleshooting Chart REAR SUSPENSION ASSEMBLY Components 2WD KA24DE MODEL 2WD VG33E AND VG33ER MODEL 4WD MODEL ON-VEHICLE SERVICE Component	NOISE VIBRATION AND HARSHNESS (NVH)	
REAR SUSPENSION ASSEMBLY Components 2WD KA24DE MODEL 2WD VG33E AND VG33ER MODEL 4WD MODEL ON-VEHICLE SERVICE Component	TROUBLESHOOTING	4
Components 2WD KA24DE MODEL 2WD VG33E AND VG33ER MODEL 4WD MODEL ON-VEHICLE SERVICE Component	NVH Troubleshooting Chart	4
2WD KA24DE MODEL 2WD VG33E AND VG33ER MODEL 4WD MODEL ON-VEHICLE SERVICE Component	REAR SUSPENSION ASSEMBLY	5
2WD VG33E AND VG33ER MODEL 4WD MODEL ON-VEHICLE SERVICE Component	Components	5
4WD MODEL ON-VEHICLE SERVICE Component	2WD KA24DE MODEL	5
ON-VEHICLE SERVICE	2WD VG33E AND VG33ER MODEL	6
Component	4WD MODEL	6
ComponentRear Suspension Parts	ON-VEHICLE SERVICE	7
Rear Suspension Parts	Component	7
	Rear Suspension Parts	7

SHOCK ABSORBER	9
Removal and Installation	
Inspection	9
LEAF SPRING	
Removal	10
Inspection	10
Installation	11
STABILIZER BAR	12
Removal	
Inspection	12
Installation	
SERVICE DATA AND SPECIFICATIONS (SDS)	13
General Specifications (Rear)	13

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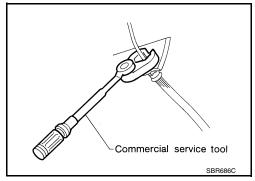
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PRECAUTIONS

PRECAUTIONS PFP:00001

PrecautionsWhen installing rubber parts, final tightening must be car-

- ried 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.



EES000XB

PREPARATION

PREPARATION Commercial Service 1	To a la	PFP:00002	А
Tool name	loois	Description	
1 Flare nut crowfoot 2 Torque wrench		Removing and installing each brake piping a: 10 mm (0.39 in)	В
	S-NT360		D

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NOISE VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NOISE VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart

PFP:54000

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

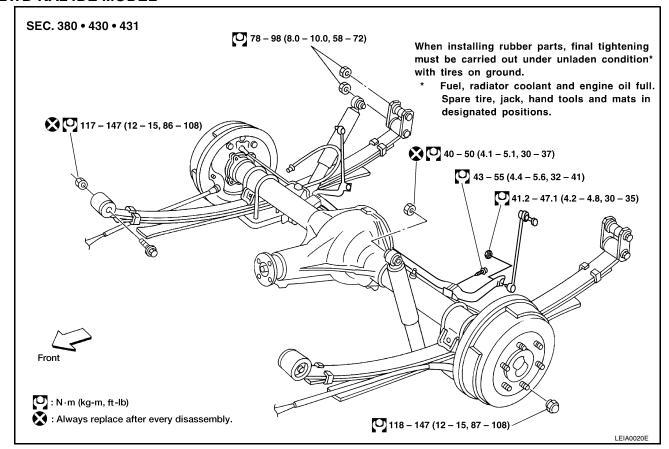
-	10 (chart below to	יוו כ	ib you	וווו ג	u ii	ie c	aus	9E C	יו נוי	e 5)	yııı	лоп	11. 11	116	CES	Sai	у, п	zpai	1 01 16	piace	แเธอเ	s pa	ıııs.
Possible Cause and SUSPECTED PARTS		RSU-5	RSU-7	RSU-7	I	RSU-7	RSU-7	<u>RSU-12</u>	WT-3	<u>WT-3</u>	ı	<u>WT-3</u>	1	<u>WT-3</u>	<u>PR-3</u>	<u>PR-3</u>	RAX-5	RAX-5	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	
		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	
	SUSPENSION	Noise	×	×	×	×	×	×								×	×	×	×		×	×	×	×
		Shake	×	×	×	×		×								×		×	×		×	×	×	×
		Vibration	×	×	×	×	×									×		×	×		×			×
		Shimmy	×	×	×	×													×		×	×	×	×
	USP	Judder	×	×	×														×		×	×	×	×
	S	Poor quality ride or han- dling	×	×	×	×	×		×										×		×	×		
		Noise	×							×	×	×	×	×		×	×	×	×	×		×	×	×
		Shake	×							×	×	×	×		×	×		×	×	×		×	×	×
tom	TIRES	Vibration									×				×	×		×	×	×				×
Symptom		Shimmy	×							×	×	×	×	×	×				×	×		×	×	×
Q.	F	Judder	×							×	×	×	×		×				×	×		×	×	×
		Poor quality ride or han- dling	×							×	×	×	×		×				×	×		×		
		Noise	×							×			×			×	×	×	×	×	×		×	×
	닖	Shake	×							×			×			×		×	×	×	×		×	×
	ROAD WHEEL	Shimmy, Jud- der	×							×			×						×	×	×		×	×
	RO	Poor quality ride or han- dling	×							×			×						×	×	×			

REAR SUSPENSION ASSEMBLY

REAR SUSPENSION ASSEMBLY

PFP:55020

Components 2WD KA24DE MODEL EES000XE



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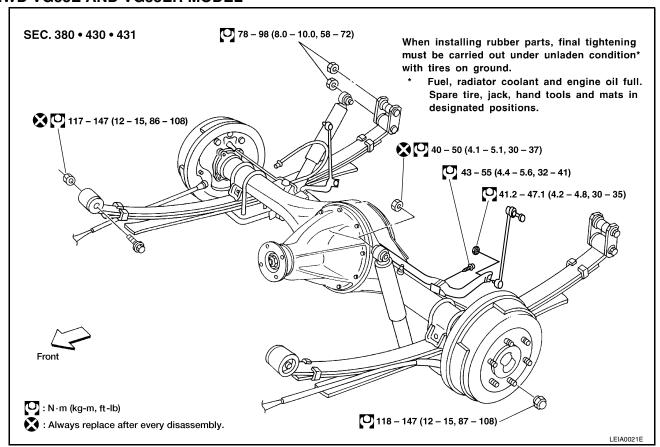
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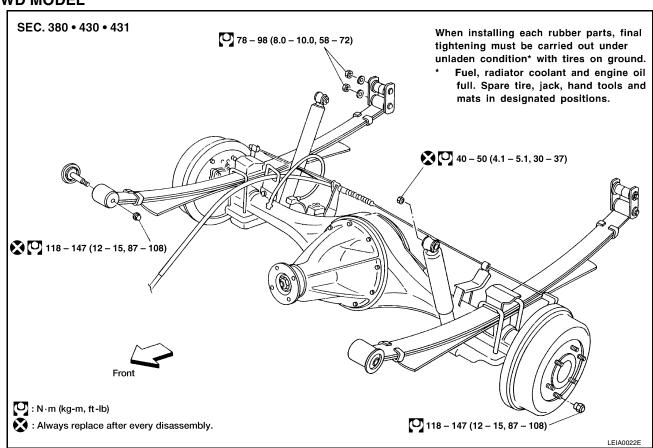
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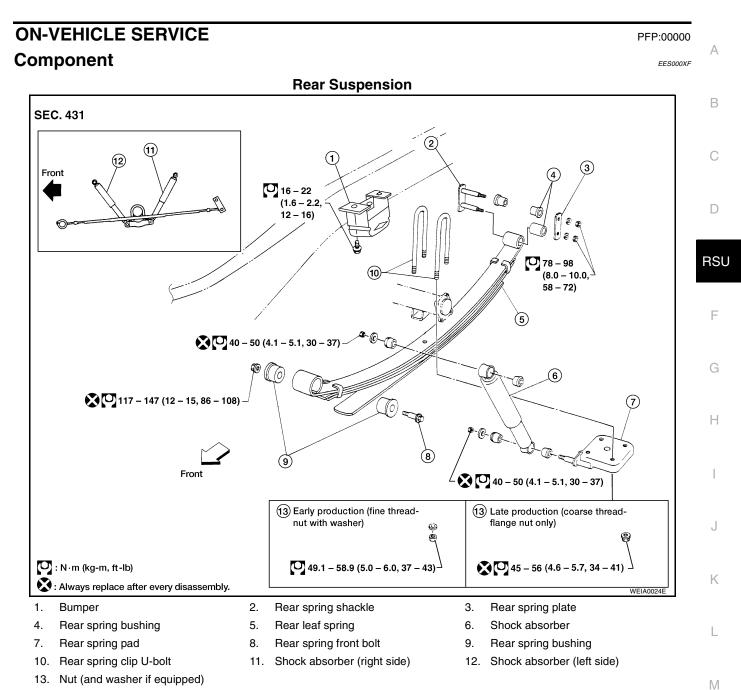
REAR SUSPENSION ASSEMBLY

2WD VG33E AND VG33ER MODEL



4WD MODEL





CALITICAL

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.

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.

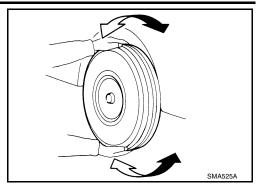
Rear Suspension Parts

EES000XG

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

ON-VEHICLE SERVICE

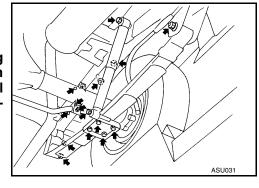
 Shake each rear wheel to check for any excessive play as shown.



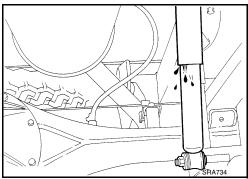
Tighten all of the nuts and bolts to the specified torque.
 Refer to <u>RSU-7</u>, "Component".

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.

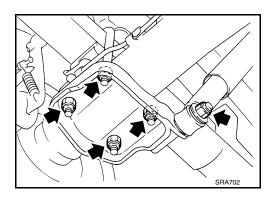
SHOCK ABSORBER

SHOCK ABSORBER PFP:56210 Α **Removal and Installation** EES000XH Remove shock absorber by disconnecting upper and lower end. 2. Install in the reverse order of removal. В Refer to FSU-5, "Components" Inspection C EES000XI If oil leakage, cracks and deformation occurs, replace shock absorber assembly. If rubber bushings are cracked and deformed, replace rubber bushings. D RSU Н

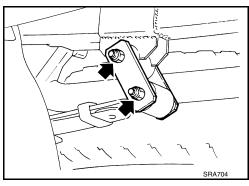
LEAF SPRING PFP:55020

Removal

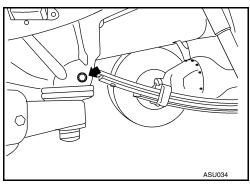
Disconnect shock absorber lower end, and remove U-bolts.
 Support axle with jack stand prior to removing leaf spring.



Remove the spring shackle.



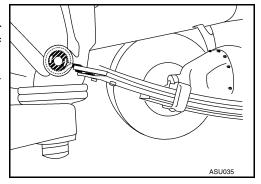
- 3. Remove the front pin.
- 4. Remove the leaf spring.



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.



LEAF SPRING

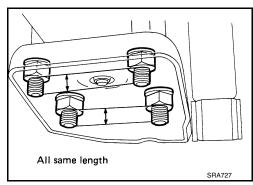
Installation

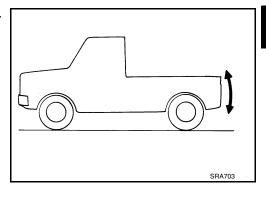
- 1. Apply soapsuds to rubber bushing.
- 2. Install spring shackle and front pin, and finger tighten the nuts.
- 3. Install spring pad and nuts under leaf spring or axle case.
- 4. Tighten U-bolt mounting nuts diagonally.

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)



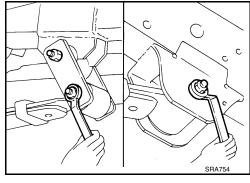


7. Tighten spring shackle nuts, front pin nuts and shock absorber nuts.

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 PFP:54611

Removal

Remove stabilizer bar connecting bolts and clamp bolts.

Inspection

- Check stabilizer bar for twist and deformation.
- Check rubber bushing for cracks, wear and deterioration.
 Replace if necessary.

Installation

Install in the reverse order of removal.

Refer to RSU-5, "Components".

SERVICE DATA AND SPECIFICATIONS (SDS)

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

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SERVICE DATA AND SPECIFICATIONS (SDS)