REAR AXLE & REAR SUSPENSION

SECTION

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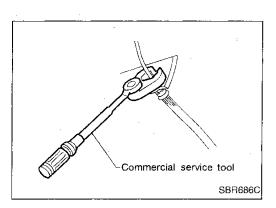
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Precautions

- 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.
- Use flare nut wrench when removing or installing brake tubes.
- After installing removed suspension parts, check wheel alignment and adjust if necessary.
- Always torque brake lines when installing.

Special Service Tools

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description	,
KV40101000 (J25604-01) Axle stand	AP	Removing rear axle shaft
ST36230000 (J25840-A) Sliding hammer	NT159	Removing rear axle shaft
ST38020000 (—) Bearing lock nut wrench	NT160	Removing wheel bearing lock nut
HT72480000 (J25852-B) Rear axle shaft bearing puller	NT161	Removing wheel bearing
ST37840000 () Rear axle shaft guide	NT162	Installing rear axle shaft

Commercial Service Tools

Tool name	Description		G
 Flare nut crowfoot Torque wrench 		Removing and installing each brake piping	MA
	NT360	a: 10 mm (0.39 in)	- EM
Rear axle oil seal drift	C L	Installing oil seal	- 13000
	ab	a: 74 mm (2.91 in) dia. b: 68 mm (2.68 in) dia.	LC
	NT163	c: 10 mm (0.39 in)	- EC

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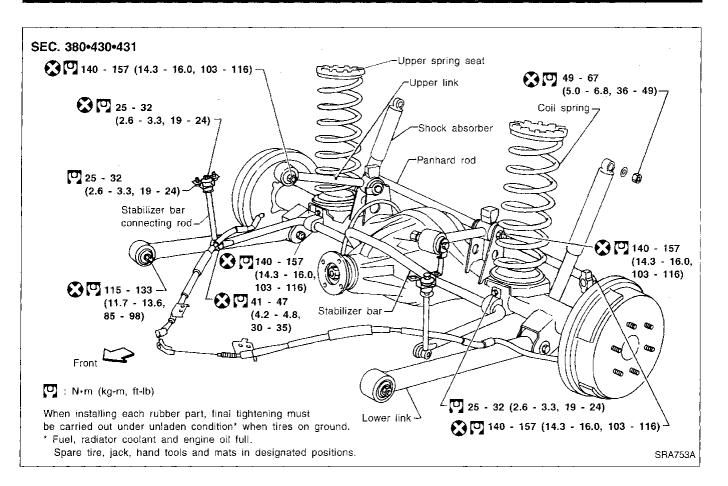
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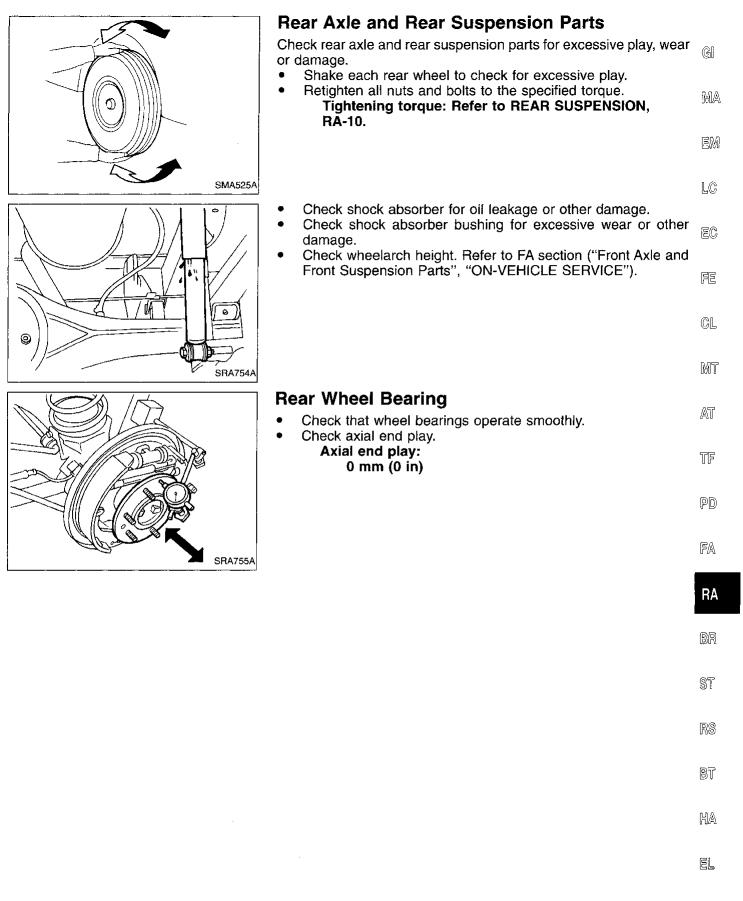
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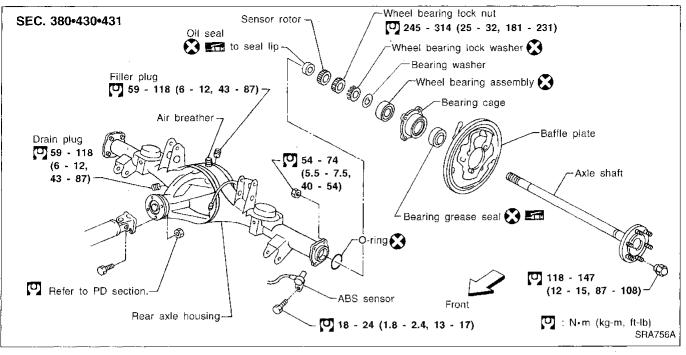
REAR AXLE AND REAR SUSPENSION





REAR AXLE

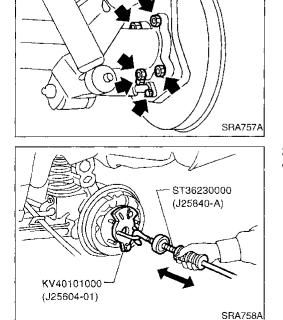
Components



Removal

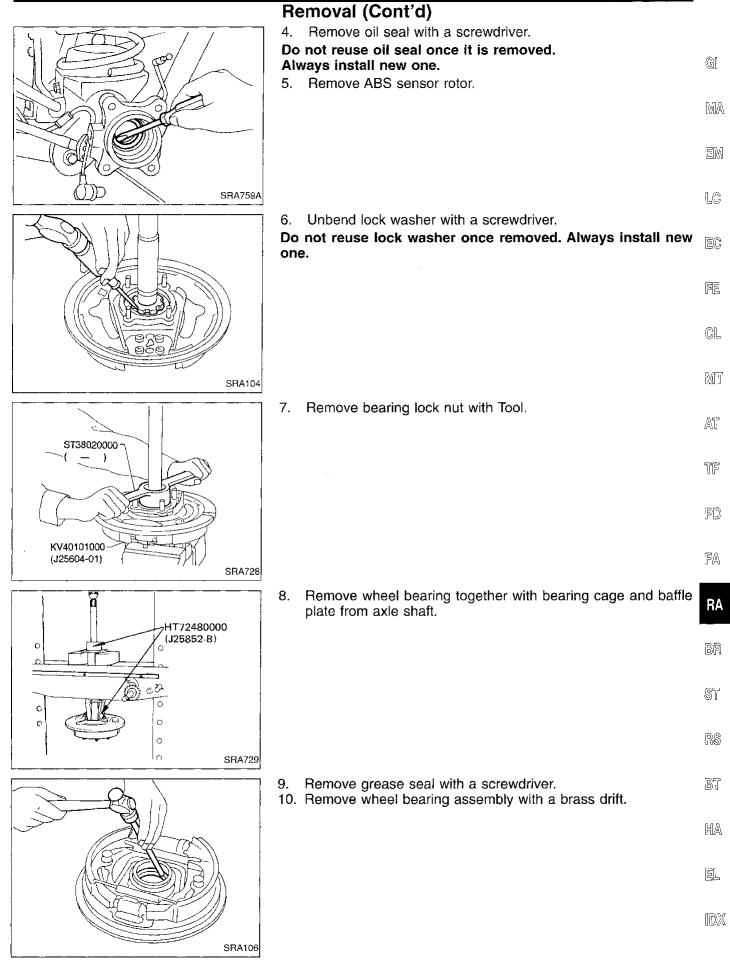
CAUTION:

- Before removing the rear axle, disconnect the ABS wheel sensor from the assembly. Then move it away from the axle. Failure to do so may result in damage to the sensor wires and the sensor becoming inoperative.
- Wheel bearing does not require maintenance.
- If growling noise is emitted from wheel bearing during operation, replace wheel bearing assembly.
- If the wheel bearing assembly is removed, it must be renewed. The old assembly must not be re-used.
- 1. Disconnect parking brake cable and brake tube.
- 2. Remove nuts securing wheel bearing cage with baffle plate.



3. Draw out axle shaft with Tool. When drawing out axle shaft, be careful not to damage oil seal.

REAR AXLE



Inspection

AXLE SHAFT

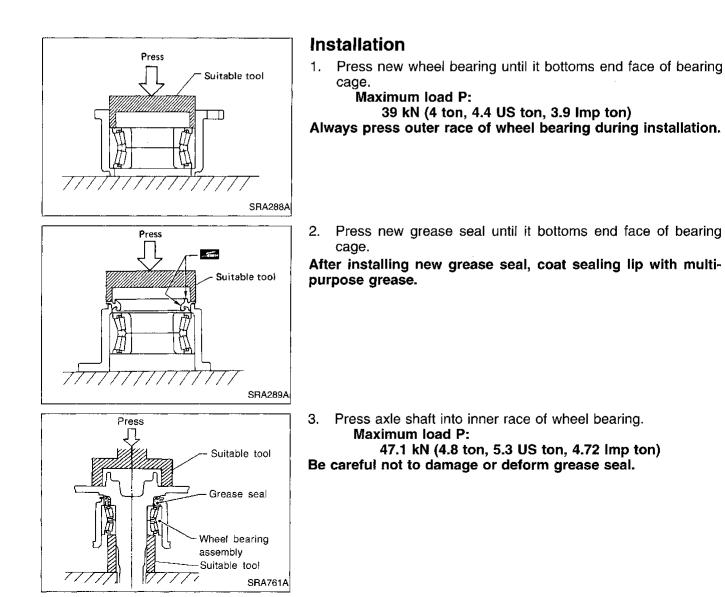
Check axle shaft for straightness, cracks, damage, wear or distortion. Replace if necessary.

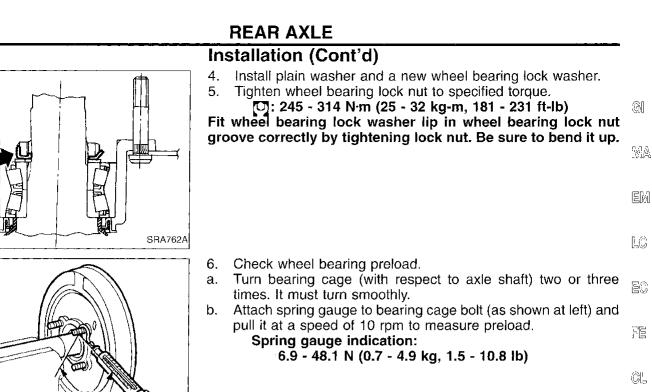
BEARING CAGE

Check bearing cage for deformation or cracks. Replace if necessary.

REAR AXLE HOUSING

Check rear axle housing for yield, deformation or cracks. Replace if necessary.



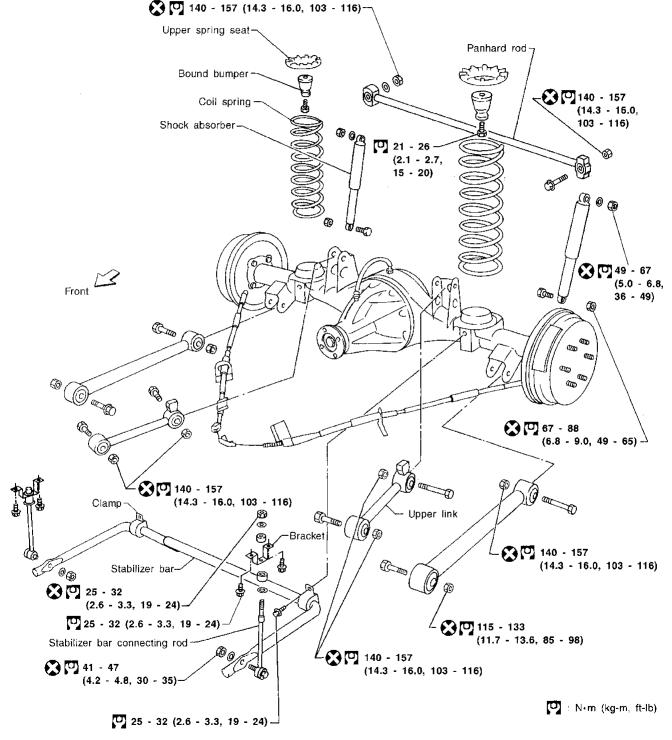


900 SRA763A	 6. Check wheel bearing preload. a. Turn bearing cage (with respect to axle shaft) two or three times. It must turn smoothly. b. Attach spring gauge to bearing cage bolt (as shown at left) and pull it at a speed of 10 rpm to measure preload. Spring gauge indication: 6.9 - 48.1 N (0.7 - 4.9 kg, 1.5 - 10.8 lb) 	ec Fe CL
Suitable tool	7. Install new oil seal to rear axle housing using a suitable tool. After installing new oil seal, coat sealing lip with multi-pur- pose grease.	AT TF
SRA292A		PD FA
ST37840000	 Press ABS sensor rotor onto axle shaft until it contacts wheel bearing lock nut. Position axle shafts in rear axle housing with Tool as a guide. Be careful not to damage oil seal. 	RA BR ST RS
(-) SRA012	 Check axial end play. Check that wheel bearings operate smoothly. Check axial end play. Axial end play: 0 mm (0 in) 	BT Ma
SRA755A		EL (DX

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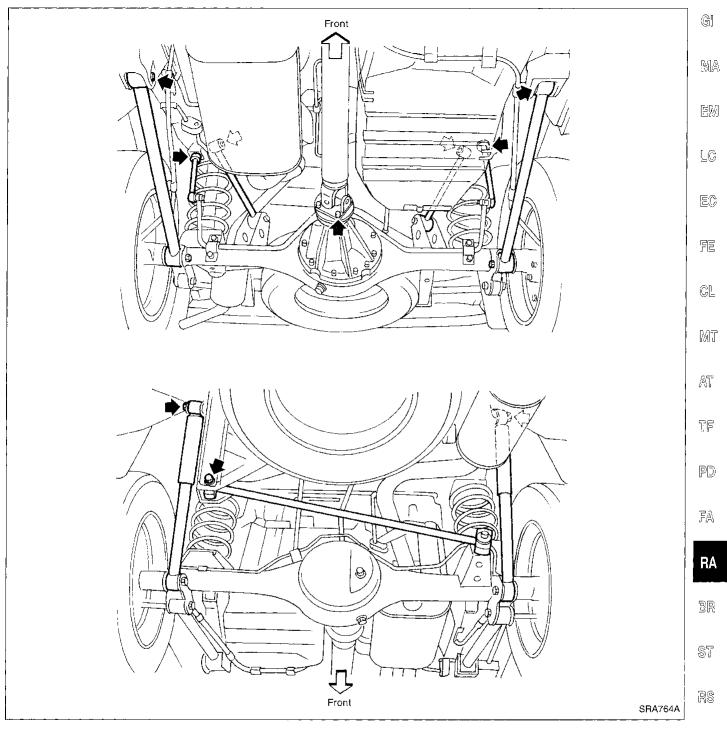
When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground.

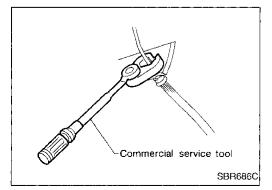
Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.



REAR SUSPENSION

Removal and Installation





- Support axle and suspension components with a suitable jack BT and block.
- Disconnect brake hydraulic line and parking brake cables at back plates.

CAUTION:

- Use flare nut wrench when removing or installing brake tubes.
- Before removing the rear suspension assembly, disconnect the ABS wheel sensor from the assembly. Then move it away from the rear suspension assembly. Failure to do so may result in damage to the sensor wires and the sensor becoming inoperative.

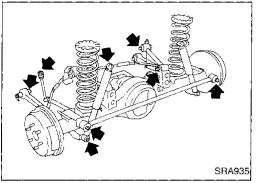
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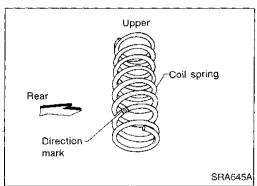
REAR SUSPENSION

Removal and Installation (Cont'd)

- Remove stabilizer bar from body.
- Remove upper links and lower links from body.
- Remove panhard rod from body.
- Disconnect rear end of propeller shaft. Refer to PD section.
- Remove upper end nuts of shock absorber.



Final tightening for rubber parts requires to be carried out under unladen condition with tires on ground.



Coil Spring and Shock Absorber

REMOVAL AND INSTALLATION

Refer to "Removal and Installation", "REAR SUSPENSION", RA-11.

When installing coil spring, pay attention to its direction. Be sure spring rubber seat is not twisted and has not slipped off when installing coil spring.

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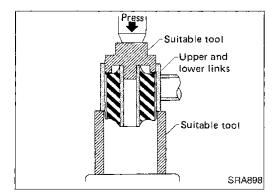
INSPECTION

- · Check coil spring for yield, deformation or cracks.
- Check shock absorber for oil leakage, cracks or deformation.
- Check all rubber parts for wear, cracks or deformation. Replace if necessary.

Upper Link, Lower Link and Panhard Rod

INSPECTION

Check for cracks, distortion or other damage. Replace if necessary.

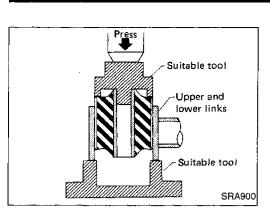


BUSHING REPLACEMENT

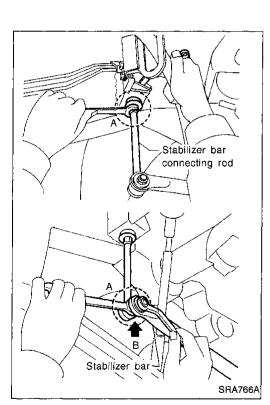
Check for cracks or other damage. Replace with suitable tool if necessary.

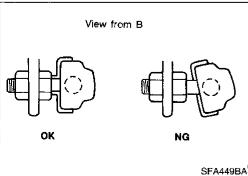
• Remove bushing with suitable tool.

REAR SUSPENSION



Upper Link, Lower Link and Panhard Rod (Cont'd) When installing bushing, apply a coat of 1% soapy water to GI outer wall of bushing. Always install new bushing. Do not tap end face of bushing directly with a hammer. MA 這例 [.C INSTALLATION When installing each link, pay attention to direction of nuts EC and bolts. When installing each rubber part, final tightening must be carried out under unladen condition with tires on ground. FE



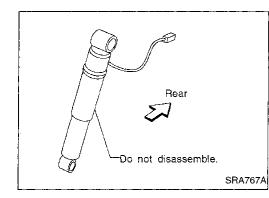


Stabilizer Bar	
REMOVAL AND INSTALLATION	AT
When removing and installing stabilizer bar, fix portion A	TF
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 Install stabilizer bar with ball joint socket properly placed 	. Bī
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Removal and Installation

• Disconnect sub-harness connector.

• Remove adjustable shock absorber fixing nuts and bolts. When installing adjustable shock absorber, pay attention to its direction.

Inspection

Replace shock absorber assembly if it is damaged. Refer to "Coil Spring and Shock Absorber", "REAR SUSPENSION", RA-12.

Trouble Diagnosis

Refer to FA section ("Trouble Diagnoses", "ADJUSTABLE SHOCK ABSORBER").

General Specifications

Vehicle grade	SE	Except SE
Suspension type	5-link type rigid with coil spring	
Shock absorber type	Double-act	ing hydraulic
	Adjustable	Non-adjustable
Stabilizer	Standard equipment	

Inspection and Adjustment

WHEEL BEARING

Wheel bearing axial end play mm (in)	0 (0)
Wheel bearing lock nut	
Tightening torque N⋅m (kg-m, ft-lb)	245 - 314 (25 - 32, 181 - 231)
Wheel bearing preload measured at bearing cage bolt N (kg, lb)	6.9 - 48.1 (0.7 - 4.9, 1.5 - 10.8)

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