REAR AXLE & REAR SUSPENSION

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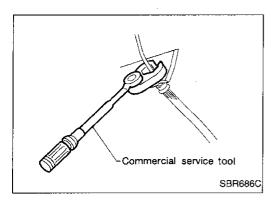
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Precautions

- 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

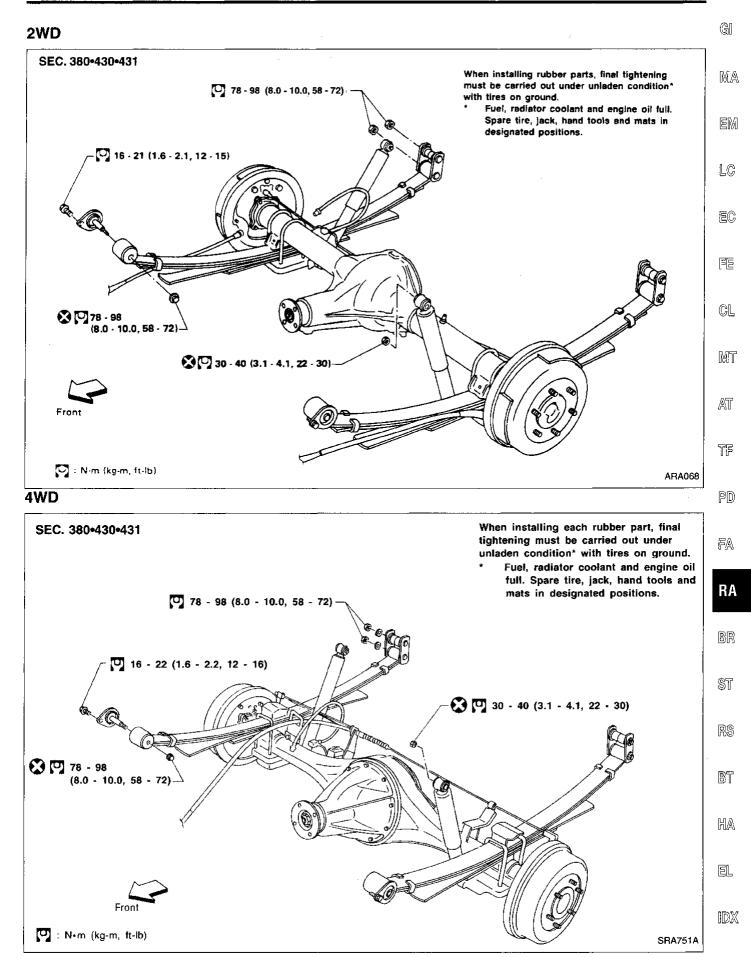
The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

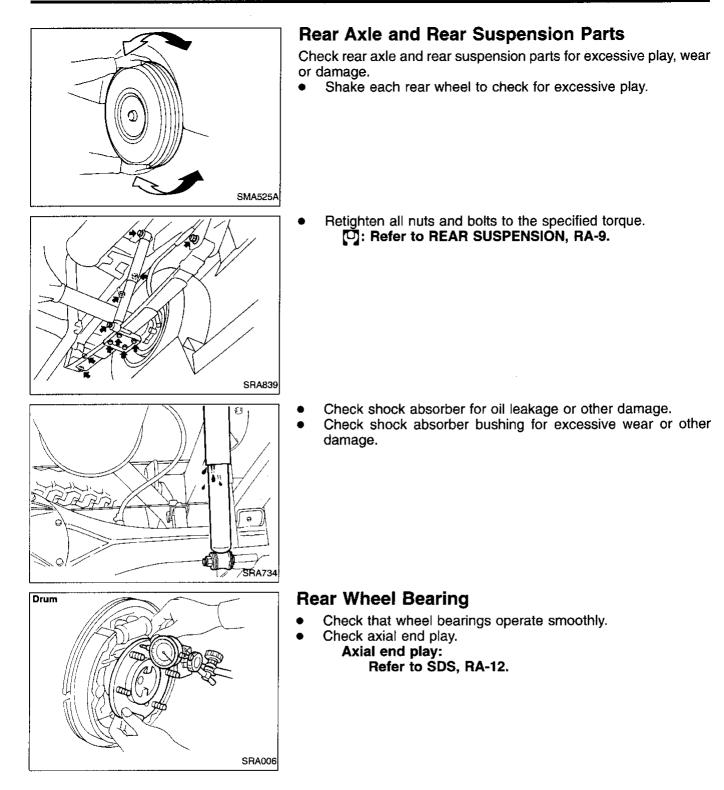
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Tool number (Kent-Moore No.) Tool name	Description	
KV40101000 (J25604-01) Axle stand		Removing rear axle shaft
ST36230000 (J25840-A) Sliding hammer	NT159	Removing rear axle shaft
ST38020000 (—) Bearing lock nut wrench	NT 160	Removing wheel bearing lock nut
HT72480000 (J25852-B) Rear axle shaft bearing puller	NT161	Removing wheel bearing
ST37840000 (—) Rear axle shaft guide	NT162	Installing rear axle shaft

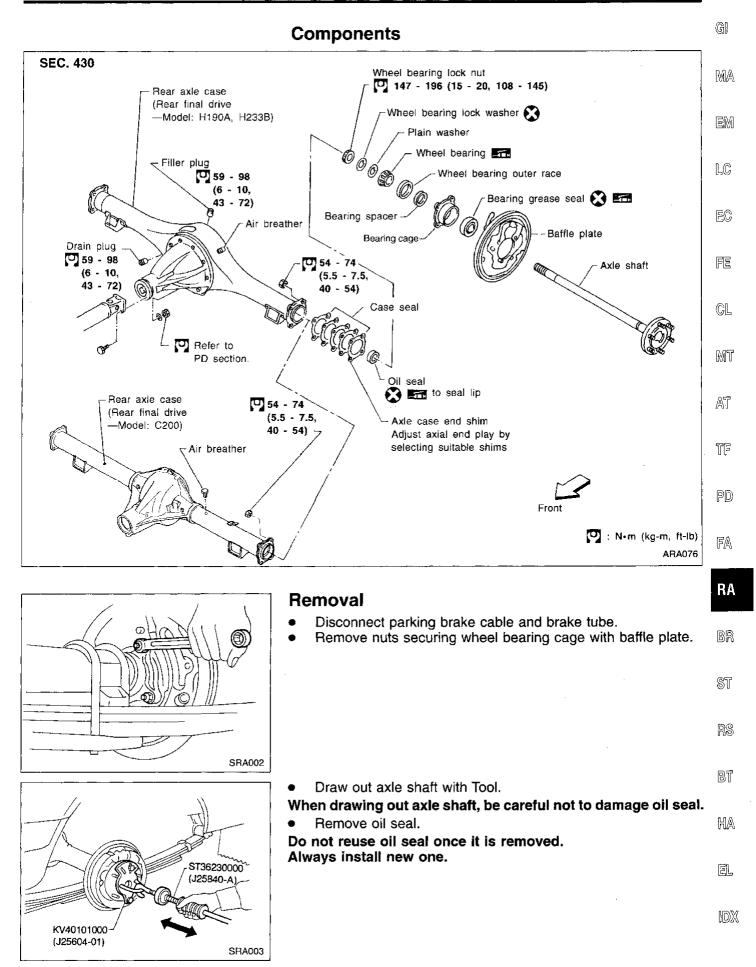
Commercial Service Tools

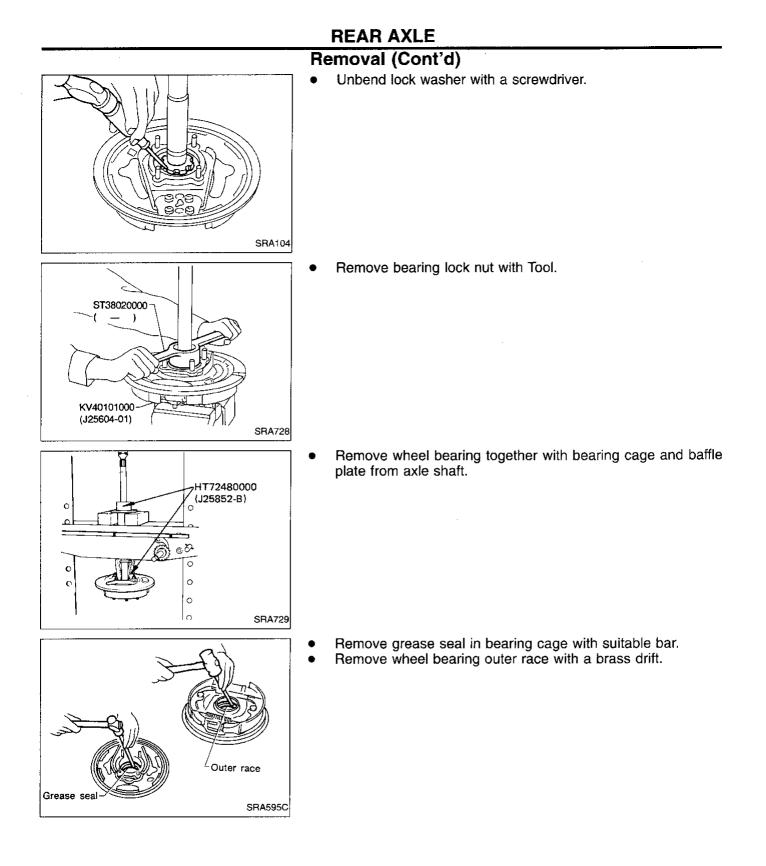
Tool name	Description	
 Flare nut crowfoot Torque wrench 		Removing and installing each brake piping
	NT360	a: 10 mm (0.39 in)
Rear axle oil seal drift	÷	Installing oil seal
	NT163	a: 74 mm (2.91 in) dia. b: 68 mm (2.68 in) dia. c: 10 mm (0.39 in)

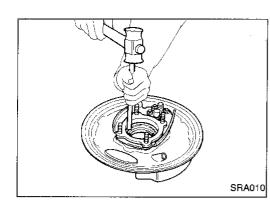




REAR AXLE







Inspection

AXLE SHAFT

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

WHEEL BEARING

Make sure wheel bearing rolls freely and is free from noise, cracks, pitting or wear.

AXLE CASE

Check axle case for yield, deformation or cracks. Replace if EC necessary.

Installation

- Install wheel bearing outer race with a brass drift.
- Install a new grease seal in bearing cage.

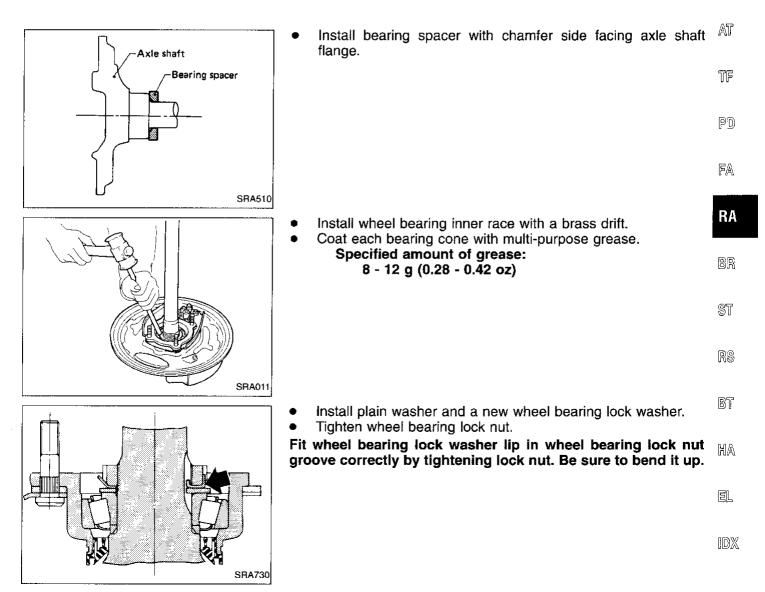
After installing new grease seal, coat sealing lip with multi-

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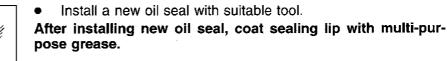
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REAR AXLE

Installation (Cont'd)



Lubricating portion

Wheel bearing

cage

Wheel bearing cage

SRA731

Fnd

Axie

case

Case seal Axle case

Axle shaft

shims

Suitable tool

Apply recess of axle case end with multi-purpose grease.
Apply gear oil to the spline of axle shaft. Coat seal surface of axle shaft with multi-purpose grease (as shown left).

- Adjust axial end play.
- a. Select end shims.

Standard thickness: 1.5 mm (0.059 in) Axle case end shim: Refer to SDS, RA-12. Do not insert end shims between case seal and bearing cage.

b. Insert axle shaft with Tool as a guide.

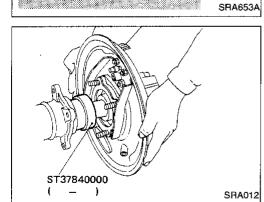
When inserting axle shaft, be careful not to damage oil seal.

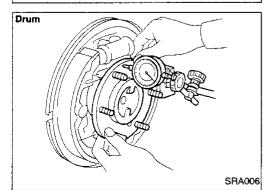
c. Measure end play of axle shaft.

Axial end play: Servicing one side axle 0.02 - 0.15 mm (0.0008 - 0.0059 in) Servicing both side axles On first axle (right or left) 0.30 - 0.90 mm (0.0118 - 0.0354 in) On second axle 0.02 - 0.15 mm (0.0008 - 0.0059 in)

d. If axial end play is not within the specified limit, reselect axle case end shims.

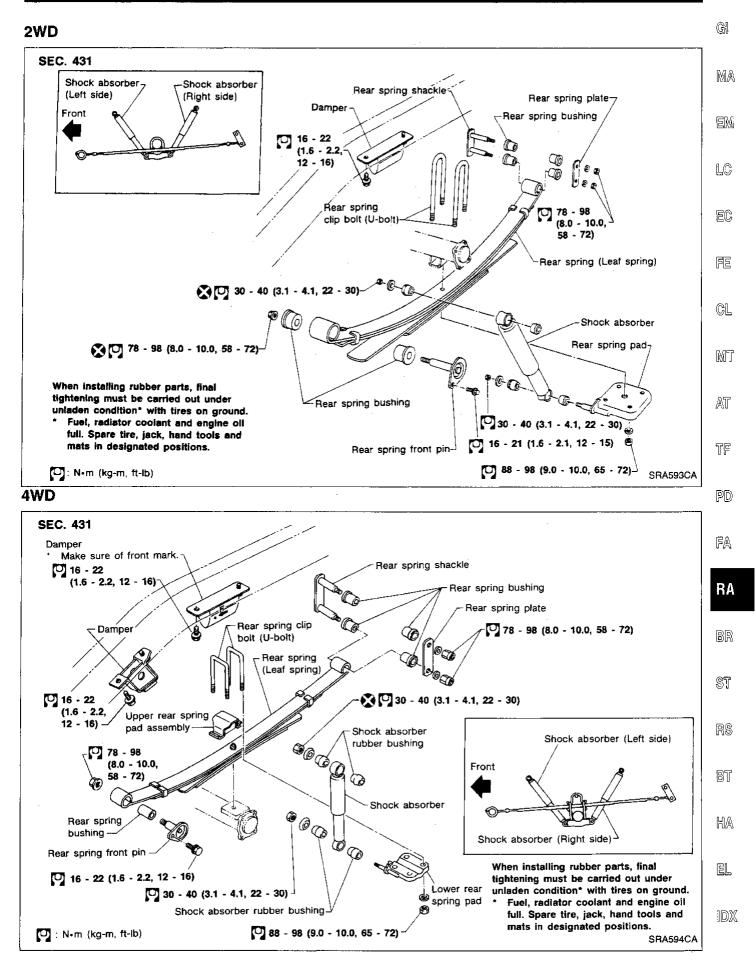
While adjusting axial end play, be careful not to damage oil seal.

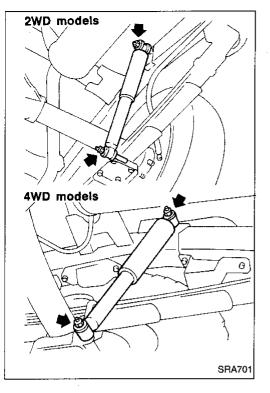




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REAR SUSPENSION





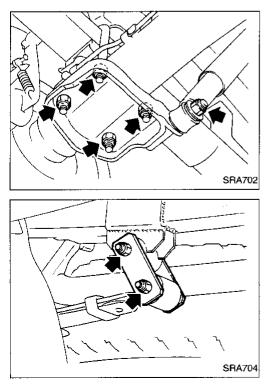
Shock Absorber

REMOVAL AND INSTALLATION

• Remove shock absorber by disconnecting upper and lower end.

INSPECTION

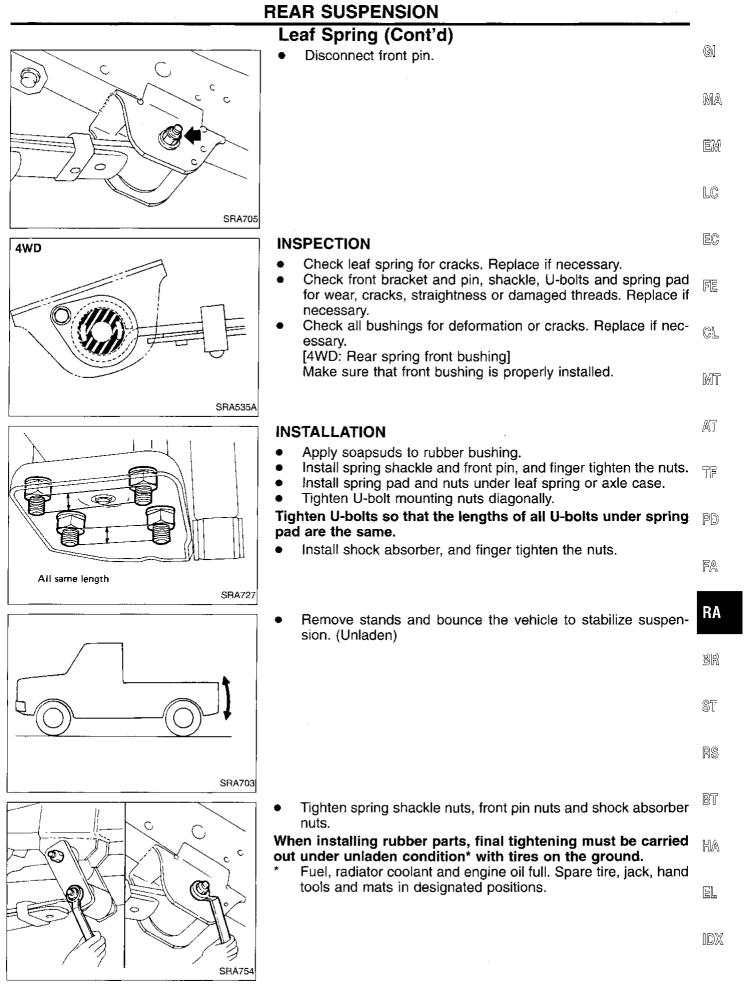
- If oil leakage, cracks or deformation occurs, replace shock absorber assembly.
- If rubber bushings are cracked or deformed, replace rubber bushings.



Leaf Spring REMOVAL AND INSTALLATION

• Disconnect shock absorber lower end, and remove U-bolts.

• Disconnect spring shackle.



General Specifications

LEAF SPRING AND SHOCK ABSORBER

	2WD				
Applied model	Canada			4WD	
	U.S.A.	Regular Cab	King Cab	Option	7
eaf spring					
Spring length x width mm (in)	1,200 x 60 (47.24 x 2.36)				
Spring thickness - number of leaves mm (in)			7 (0.28) - 2 13 (0.51) - 1	7 (0.28) - 1 8 (0.31) - 1 12 (0.47) -1 13 (0.51) - 1	
Free camber "S" mm (in)	171.0 (6.73)	183.0 (7.20)	164.5 (6.48)	171.0 (6.73)	106.0 (4.17)
hock absorber					
Shock absorber type			Non-adjustable		
Maximum length mm (in)	508 (20.00)			528 (20.79)	
Compression N (kg, lb)	157 - 275 (16 - 28, 35 - 62)			265 - 422 (27 - 43, 60 - 95	
S S	Helper spring			L	
		SRA657A			SRA658

Inspection and Adjustment

WHEEL BEARING

Total end play mm (in)	0.02 - 0.15 (0.0008 - 0.0059)		
	Thickness mm (in)	Part number	
Available rear axle case end shims	0.05 (0.0020) 0.07 (0.0028) 0.10 (0.0039) 0.15 (0.0059) 0.20 (0.0079) 0.50 (0.0197) 1.00 (0.0394)	43086-P0110 43087-P0110 43088-P0110 43086-B9500 43089-P0110 43090-P0110 43036-01G00	