REAR AXLE & REAR SUSPENSION

SECTION RA

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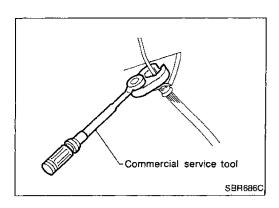
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Precautions

- 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 lines.
- After installing removed suspension parts, check wheel alignment and adjust if necessary.
- Always torque brake lines when installing.
- Do not jack up at the lower arm.

Preparation

SPECIAL SERVICE TOOLS

Tool number (Kent-Moore No.) Tool name	Description	
HT71780000 (—) Spring compressor		Removing and installing coil spring
	NT144	
ST35652000 (—) Shock absorber attachment		Fixing strut assembly
	NT145	
ST30031000 (J22912-01) Bearing puller		Removing inner race of wheel bearing
	NT071	
ST38280000 (—) Arm bushing remover		Removing and installing rear axle housing bushing
	NT157	
IM23600800 (—) Attachment	b a e	Measure rear wheel alignment a: Screw M24 x 1.5 b: 35 (1.38) dia. c: 65 (2.56) dia. d: 56 (2.20) e: 12 (0.47) Unit: mm (in)
	NT148	e: 12 (0.47) Unit: mm (in)

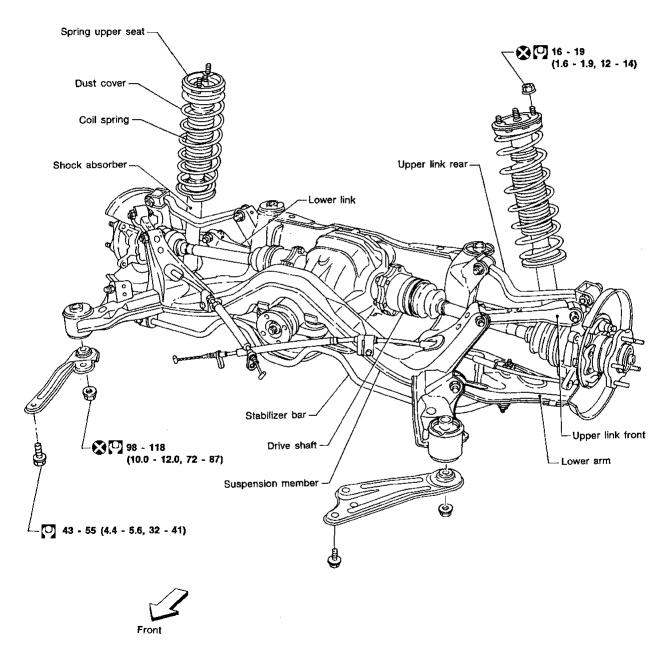
PRECAUTIONS AND PREPARATION

	PRECAUTIONS AND PR		-
Tool number (Kent-Moore No.) Tool name	Description		-
HT72520000 (J25730-A) Ball joint remover	PATP	Removing tie-rod outer end and lower ball joint	GI MA
	NT146		EM
	COMMERCIAL S	ERVICE TOOLS	LC
Tool name	Description		
Flare nut crows foot Torque wrench		Removing and installing each brake piping	
	NT223		AT
Rear wheel bearing drift		Installing wheel bearing	PD)
	a To T	a: 76 mm (2.99 in) dia. b: 68.5 mm (2.697 in) dia.	FA
	NT065		RA
Rear drive shaft plug seal drift		Installing rear drive shaft plug seal	
oour arm	a ToTO	a: 78 mm (3.07 in) dia. b: 72 mm (2.83 in) dia.	BR
	NT065		ST
Rear axle housing ball joint drift		Removing balf joint a: 28 (1.10) dla.	
	a b	b: 20 (0.79) dia. c: 43 (1.69) dia. d: 40 (1.57) dia.	HA
	NT164	Unit: mm (in)	EL
Rear axle housing ball joint drift	a b	Installing ball joint a: 43 (1.69) dia. b: 33 (1.30) dia.	IDX
	C d	c: 40 (1.57) dia. d: 30 (1.18) dia. Unit: mm (in)	

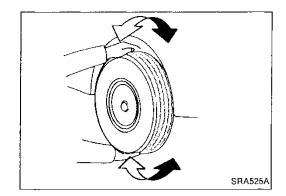
RA-3 611

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. For models equipped with SUPER HICAS system, refer to "SUPER HICAS".



O: N·m (kg-m, ft-lb)



Rear Axle and Rear Suspension Parts

Check axle and suspension parts for looseness, wear or damage.

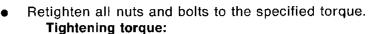
Shake each rear wheel to check for excessive play.



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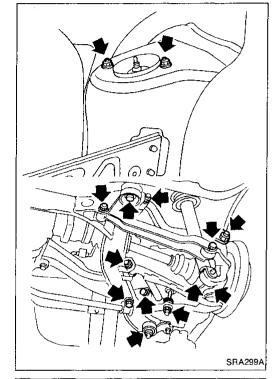
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Refer to drawing in REAR SUSPENSION (RA-20).

Make sure that cotter pin is inserted.



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Check shock absorber for oil leakage or other damage.

Check wheelarch height. Refer to Front Axle and Front Suspension Parts of ON-VEHICLE SERVICE in FA section.



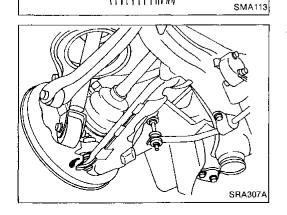
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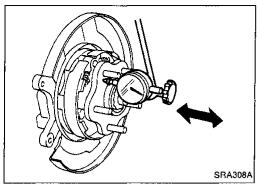
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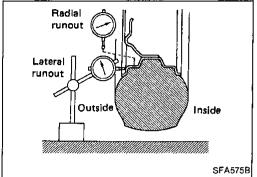
 Check suspension ball joint for grease leakage and ball joint dust cover for cracks or other damage.





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Rear Wheel Bearing

- Check wheel bearings for smooth operation.
- Check axial end play.

Axial end play:

0.05 mm (0.0020 in) or less

If axial end play is not within specification or wheel bearing does not turn smoothly, replace wheel bearing assembly. Refer to REAR AXLE — Wheel Hub and Axle Housing (RA-10).

Rear Wheel Alignment

Before checking rear wheel alignment, be sure to make a preliminary inspection.

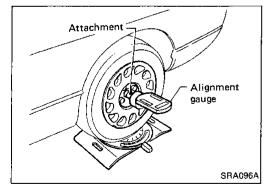
PRELIMINARY INSPECTION

Make the following checks. Adjust, repair or replace if necessary.

- Check tires for wear and for improper inflation.
- Check rear wheel bearings for looseness.
- Check wheel runout.

Refer to SDS in FA section.

- Check that rear shock absorber works properly.
- Check rear axle and rear suspension parts for looseness.
- Check vehicle posture (Unladen).
 ("Unladen": Fuel tank, radiator and engine oil full. Spare tire, jack, hand tools and mats in designated positions.)

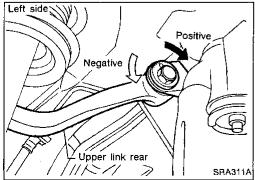


CAMBER

Measure camber of both right and left wheels with a suitable alignment gauge and adjust in accordance with the following procedures.

Camber:

Refer to SDS (RA-31).



If camber is not within specification, adjust by turning the adjusting bolt.

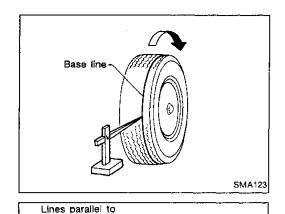
(1) Turn the adjusting bolt to adjust.

Camber changes about 5' with each graduation of the adjusting bolt.

(2) Tighten to the specified torque.

(7.0 - 9.0 kg-m, 51 - 65 ft-lb)

ON-VEHICLE SERVICE



Toe-in = A - B Total toe-in angle = 2θ

SFA234A

SRA217A

Adjusting bolt

Toe-out

center line of body

Front

Left side

Rear Wheel Alignment (Cont'd)

TOE-IN

1. Draw a base line across the tread.

After lowering rear of vehicle, move it up and down to eliminate friction.



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Measure toe-in.

Measure distance "A" and "B" at the same height as hub center.



Toe-in:

Refer to SDS (RA-31).



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3. Adjust toe-in by turning adjusting bolts. For models equipped with SUPER HICAS system, refer to SUPER HICAS (RA-28).



Toe changes about 1.5 mm (0.059 in) [One side] with each graduation of the adjusting bolt.



Tighten to the specified torque.

(I): 69 - 88 N·m (7.0 - 9.0 kg-m, 51 - 65 ft-lb)



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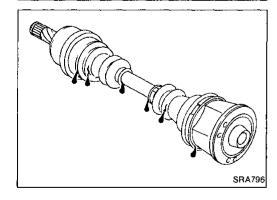
Check boot and drive shaft for cracks, wear, damage or grease leakage.



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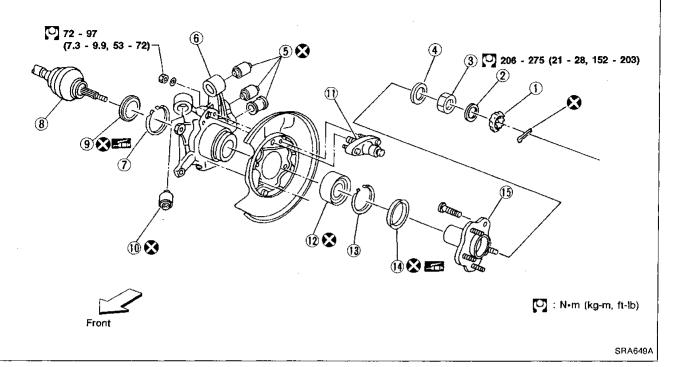
Suspension

member

Toe-in

RA-7 615 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.

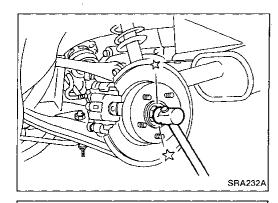


- 1 Adjusting cap
- 2 Insulator
- 3 Wheel bearing lock nut
- 4 Washer
- § Bushing

- 6 Axle housing
- ③ Snap ring
- 8 Drive shaft
- Grease seal
- 10 Bushing

- (f) Brake anchor pin
- 12 Wheel bearing
- (3) Snap ring
- (4) Grease seal
- (15) Wheel hub

REAR AXLE



Removal

Remove wheel bearing lock nut.

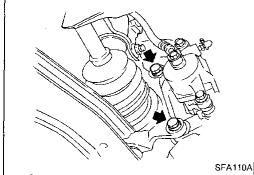
Separate drive shaft from axle housing by lightly tapping it.
 If it is hard to remove use puller.

When removing drive shaft, cover boots with shop towel to prevent them from being damaged.

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Remove brake caliper assembly and rotor.

Brake line need not be disconnected from brake caliper. Be careful not to depress brake pedal, or piston will pop out. Do not pull or twist brake hose.



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Remove axle housing.



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Do not remove nut completely while using Tool.

Disconnect ball joint with Tool. (Models with SUPER HICAS



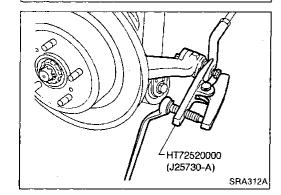
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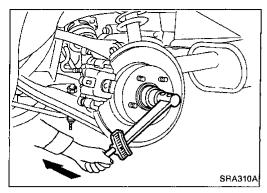


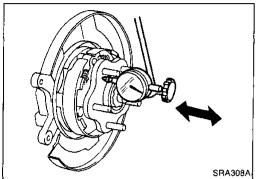




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Installation

- Install axle housing with wheel hub.
- Tighten wheel bearing lock nut.

(21 - 28 kg-m, 152 - 203 ft-lb)

Check wheel bearing axial end play.

Axial end play: 0.05 mm (0.0020 in) or less

- Make sure that wheel bearings operate smoothly.
- Check toe-in Refer to ON-VEHICLE SERVICE (RA-7).

Disassembly

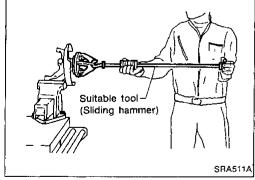
CAUTION:

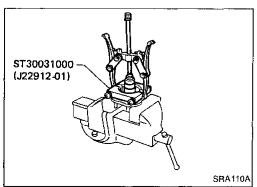
Wheel bearing usually does not require maintenance. If any of the following symptoms are noted, replace wheel bearing assembly.

- Growling noise is emitted from wheel bearing during operation.
- Wheel bearing drags or turns roughly when hub is turned with your hand after bearing lock nut is tightened to specified torque.
- After wheel bearing is removed from hub.

WHEEL BEARING

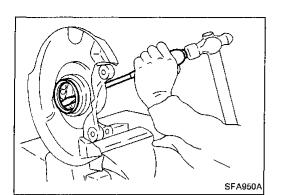
Remove wheel hub from axle housing using a suitable tool.



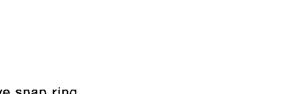


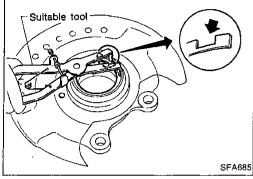
Remove inner race from hub using a bearing replacer/ puller.

Disassembly (Cont'd)

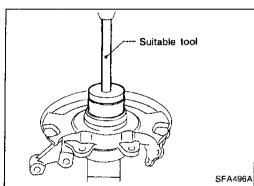


Remove grease seal from axle housing.





Remove snap ring.



Press out bearing outer race.







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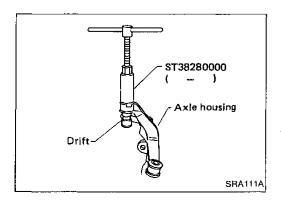
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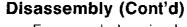
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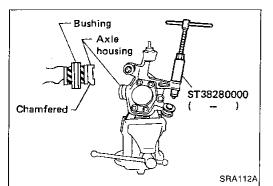


AXLE HOUSING

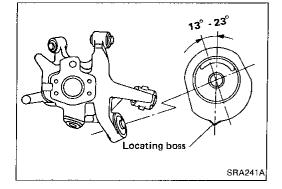
Attach a drift on outer shell of bushing as shown in figure IDX at left, remove bushing using arm bushing remover.

When placing axle housing in a vise, use wooden blocks or copper plates as pads.





- Ensure axle housing bore is free from scratches or deformities before pressing bushing into it.
- Attach bushing to chamfered bore end of axle housing and press it until it is flush with end face of axle housing.



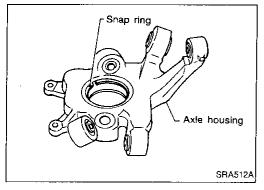
 When installing shock absorber bushing, make sure that it is positioned as shown.

Inspection

WHEEL HUB AND AXLE HOUSING

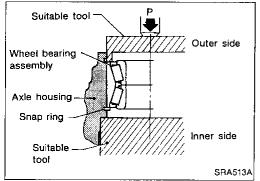
- Check wheel hub and axle housing for cracks by using a magnetic exploration or dyeing test.
- Check wheel bearing for damage, seizure, rust or rough operation.
- Check rubber bushing for wear or other damage.
- Check snap ring for wear or cracks.

Replace if necessary.



Assembly

1. Install snap ring into groove of axle housing.



Press new wheel bearing assembly into axle housing.
 Press only on outer race of wheel bearing assembly.
 Maximum load P:

29 kN (3 ton, 3.3 US ton, 3.0 Imp ton)

CAUTION:

- Do not press inner race of wheel bearing assembly.
- Do not apply oil or grease to mating surfaces of wheel bearing outer race and axle housing.
- Before pressing, check for correct bearing grease seal orientation, as inner and outer seals are different.

Assembly (Cont'd)

Snap ring

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SRA514A

Suitable

tool

Install snap ring.



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Pack grease seal lip with multi-purpose grease.

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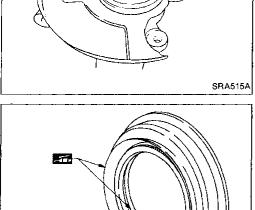
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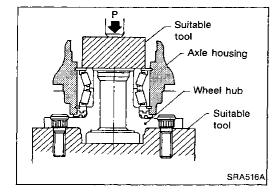
Inner side

Grease

Suitable tool

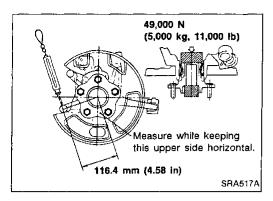
Outer side

Install outer grease seal.



Press wheel hub into axle housing with suitable tool. Maximum load P: 29 kN (3 ton, 3.3 US ton, 3.0 Imp ton)

Be careful not to damage grease seal.



Assembly (Cont'd)

With wheel hub pressed into axle housing, apply 49,000 N (5,000 kg, 11,000 lb) to wheel hub and rotate both clockwise and counterclockwise 10 times to minimize resistance.

Attach spring scale in the position shown at left and pull at a rate of 10 rpm to measure rotating torque.

Load:

49,000 N (5,000 kg, 11,000 lb)

Rotating torque:

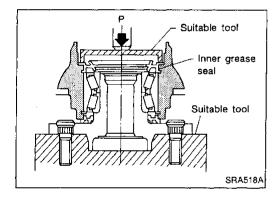
0.2 - 2.4 N·m (0.023 - 0.24 kg-m, 0.2 - 1.7 ft-lb)

Spring scale reading:

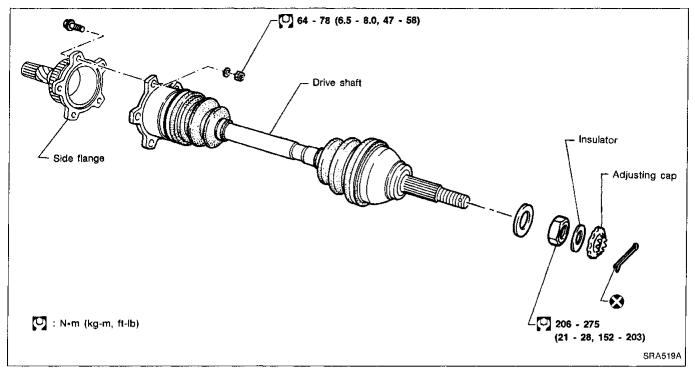
2.0 - 20.6 N (0.2 - 2.1 kg, 0.4 - 4.6 lb)

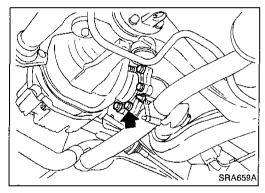
If measured value is outside specifications, replace wheel bearing.

Also make sure axial play does not exist in wheel hub when a 49,000 N (5,000 kg, 11,000 lb) load is applied.



Install inner grease seal.



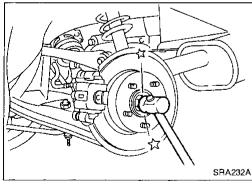




When removing drive shaft, cover boots with shop towel to prevent damage to them.

FINAL DRIVE SIDE

Remove side flange mounting bolt and separate shaft.



WHEEL SIDE

Remove drive shaft by lightly tapping it with a copper hammer. If it is hard to remove, use puller.

To avoid damaging threads of drive shaft, install a nut while removing drive shaft.

Installation

- Insert drive shaft from wheel hub and temporarily tighten wheel bearing lock nut.
- Tighten side flange mounting bolts to specified torque.
- Tighten wheel bearing lock nut to specified torque. Refer to REAR AXLE — Wheel Hub and Axle Housing (RA-10).

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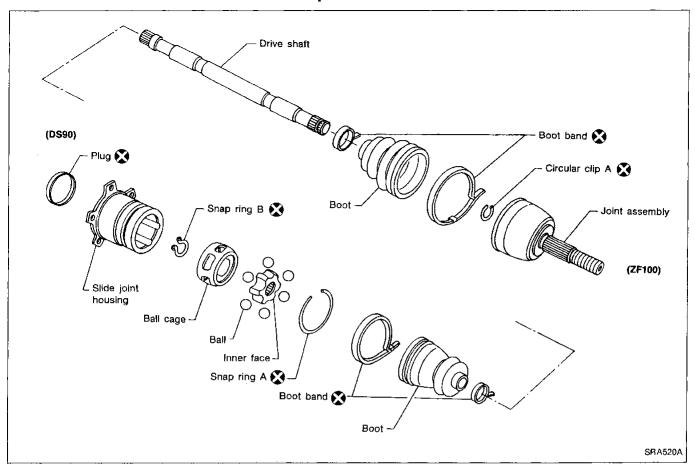
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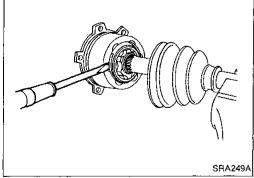
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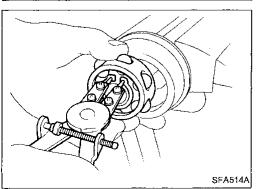
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Components





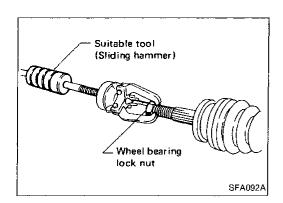


Disassembly

FINAL DRIVE SIDE

- 1. Remove boot bands.
- 2. Put matchmarks on slide joint housing and inner race, before separating joint assembly.
- 3. Pry off snap ring "A" with a screwdriver, and pull out slide joint housing.
- 4. Put matchmarks on inner race and drive shaft.
- 5. Pry off snap ring "B", then remove ball cage, inner race and balls as a unit.
- 6. Draw out boot.

Cover drive shaft serration with tape so as not to damage the boot.



Disassembly (Cont'd)

WHEEL SIDE

CAUTION:

The joint on the wheel side cannot be disassembled.

- Before separating joint assembly, put matchmarks on drive shaft and joint assembly.
- Separate joint assembly with suitable tool.

Be careful not to damage threads on drive shaft.

Remove boot bands.



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Inspection

Thoroughly clean all parts in cleaning solvent, and dry with compressed air. Check parts for evidence of deformation or other damage.



DRIVE SHAFT

Replace drive shaft if it is twisted or cracked.



BOOT

Check boot for fatigue, cracks, or wear. Replace boot with new boot bands.



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JOINT ASSEMBLY (Final drive side)

- Replace any parts of double offset joint which show signs of scorching, rust, wear or excessive play.
- Check serration for deformation. Replace if necessary.
- Check slide joint housing for any damage. Replace if necessary.



JOINT ASSEMBLY (Wheel side)

Replace joint assembly if it is deformed or damaged.



Assembly

- After drive shaft has been assembled, ensure that it moves smoothly over its entire range without binding.
- Use NISSAN GENUINE GREASE or equivalent after every overhaul.



EL

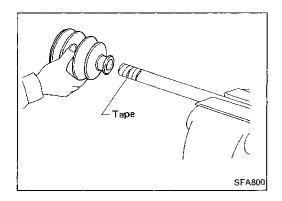
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WHEEL SIDE

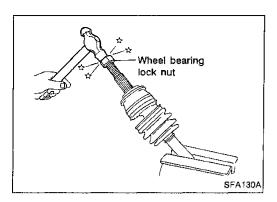
1. Install boot and new small boot band on drive shaft.



Cover drive shaft serration with tape so as not to damage boot during installation.

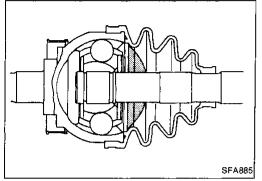


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Assembly (Cont'd)

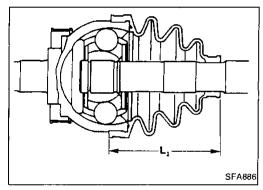
2. Set joint assembly onto drive shaft by lightly tapping it. Install joint assembly securely, ensuring marks which were made during disassembly are properly aligned.



3. Pack drive shaft with specified amount of grease.

Specified amount of grease:

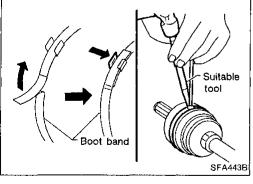
150 - 160 g (5.29 - 5.64 oz)



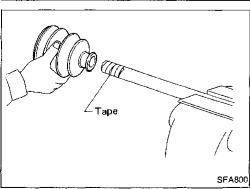
4. Set boot so that it does not swell and deform when its length is " L_1 ".

Make sure that boot is properly installed on the drive shaft groove.

Length "L₁": 96 - 98 mm (3.78 - 3.86 in)



Lock new larger and smaller boot bands securely with a suitable tool.

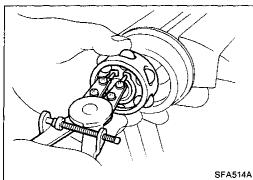


FINAL DRIVE SIDE

1. Install boot and new small boot band on drive shaft.

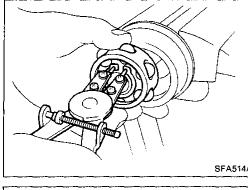
Cover drive shaft serration with tape so as not to damage boot during installation.

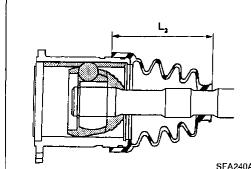
REAR AXLE — Drive Shaft

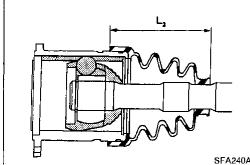


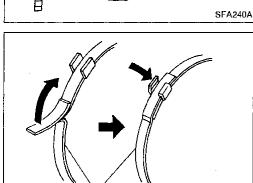
Assembly (Cont'd)

- Securely install ball cage, inner race and balls as a unit, making sure the marks which were made during disassembly are properly aligned.
- Install new snap ring "B".









Boot band

SFA395

Pack drive shaft with specified amount of grease. Specified amount of grease:

165 - 175 g (5.82 - 6.17 oz)

- Install slide joint housing, then install new snap ring "A".
- Set boot so that it does not swell and deform when its length is "L2".

Make sure that boot is properly installed on the drive shaft groove.

Length "L2": 93 - 95 mm (3.66 - 3.74 in)

7. Lock new larger and smaller boot bands securely with a suitable tool.

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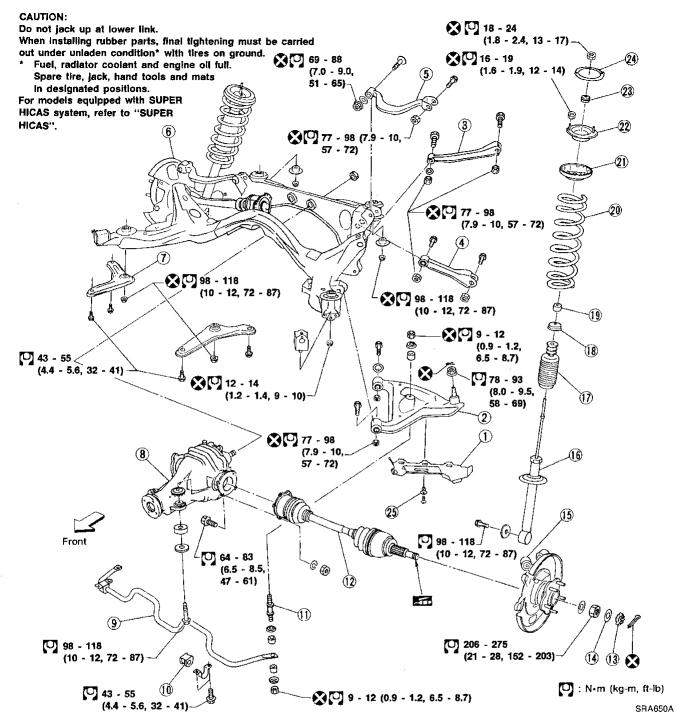
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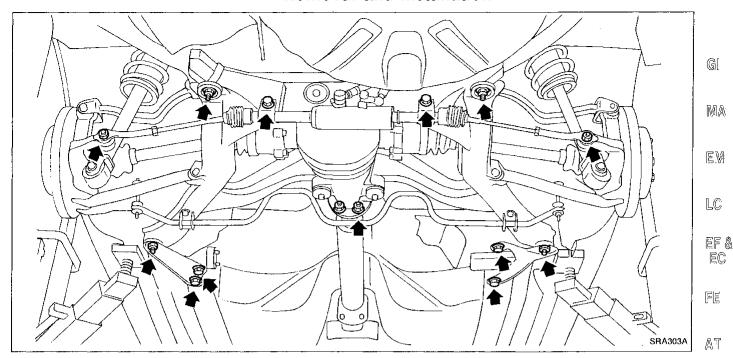


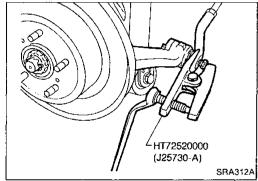
- 1 Protector
- 2 Lower link
- 3 Lateral link
- 4 Front upper link
- (5) Rear upper link
- 6 Suspension member
- 7 Member stay
- 8 Final drive
- Stabilizer

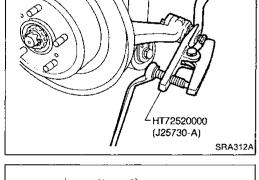
- (10) Bushing
- ① Connecting rod
- (12) Drive shaft
- (3) Adjusting cap
- (4) Insulator
- (5) Axle housing
- 6 Shock absorber
- (f) Bound bumper

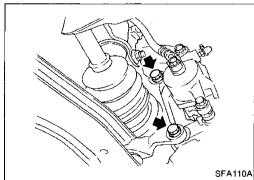
- ® Plate
- (9) Bushing
- 20 Coil spring
- 21 Upper rubber seat
- 2 Upper spring seat
- 23 Bushing
- (24) Gasket
- 25 Clip

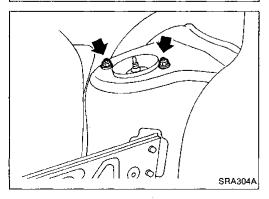
Removal and Installation











CAUTION:

Before removing the rear suspension assembly, disconnect the ABS sensor from the assembly and move it away from the rear suspension assembly area.

Failure to do so may result in the sensor wires being damaged and the sensor becoming inoperative.

- Remove exhaust tube.
- Disconnect propeller shaft rear end.
- Disconnect hand brake wire front end.
- For models equipped with SUPER HICAS system, refer to SUPER HICAS (RA-28).
- Use Tool to disconnect ball joints (SUPER HICAS).
- Remove brake caliper assembly.

Brake line need not be disconnected from brake caliper. Be careful not to depress brake pedal, or piston will pop out. Do not pull or twist brake hose.

Remove upper end nuts of shock absorber.

Do not remove piston rod lock nut.

Remove suspension member fixing nuts. Then draw out rear axle and rear suspension assembly.

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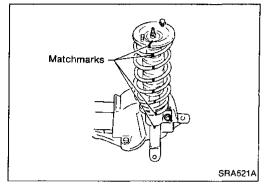
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Removal

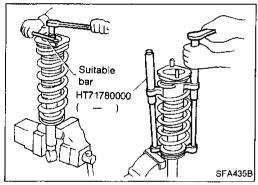
Remove shock absorber upper and lower fixing nuts.

Do not remove piston rod lock nut on vehicle.



Disassembly

Put matchmarks on coil spring and shock absorber.



1. Set shock absorber on vise with attachment, then loosen piston rod lock nut.

Do not remove piston rod lock nut.

- 2. Compress spring with Tool so that the strut upper spring seat can be turned by hand.
- 3. Remove piston rod lock nut.

Inspection

SHOCK ABSORBER ASSEMBLY

- Check for smooth operation through a full stroke, both compression and extension.
- Check for oil leakage occurring on welded or gland packing portions.
- Check piston rod for cracks, deformation or other damage.
 Replace if necessary.

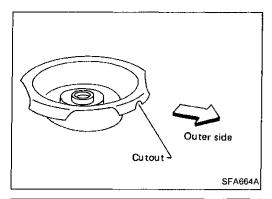
UPPER RUBBER SEAT AND BUSHING

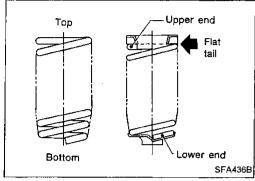
Check rubber parts for deterioration or cracks. Replace if necessary.

COIL SPRING

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

REAR SUSPENSION — Coil Spring and Shock Absorber





Assembly

 Install upper spring seat with its cutout facing the outer side of vehicle.

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 When installing coil springs, be careful not to reverse top and bottom direction. (Top end is flat.)

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 When installing coil spring on strut, it must be positioned as shown in figure at left.

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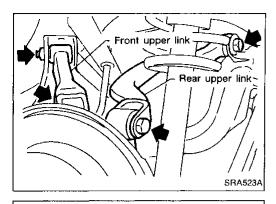
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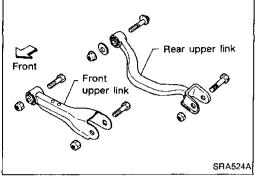
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RA-23 631

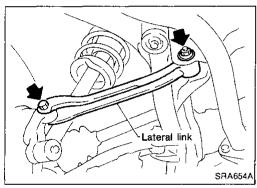


Removal and Installation

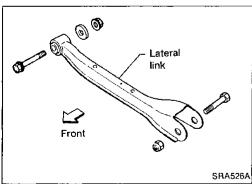
Remove upper link.



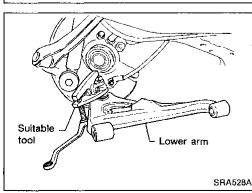
install upper link.



Remove lateral link.



Install lateral link.

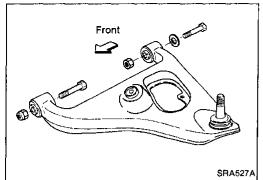


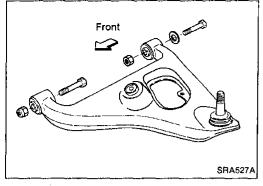
Remove lower arm.

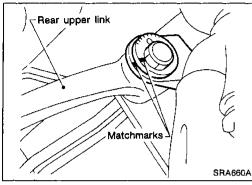
REAR SUSPENSION — Multi-link and Lower Ball Joint

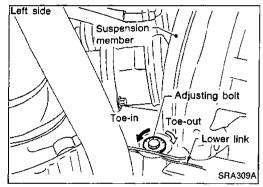
Removal and Installation (Cont'd)

Install lower arm.









Before removing, put matchmarks on adjusting bolt.

When installing, final tightening must be done under unladen condition with tires on ground.

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After installation, check wheel alignment. Refer to Rear Wheel Alignment in ON-VEHICLE SERVICE (RA-6).

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Inspection

REAR SUSPENSION MEMBER

Replace suspension member assembly if cracked or deformed

or if any part (insulator, for example) is damaged. 85

UPPER, LOWER AND LATERAL LINKS

Replace upper, lower or lateral link as required if cracked or deformed or if bushing is damaged.

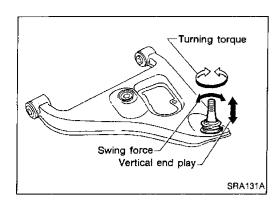
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REAR SUSPENSION — Multi-link and Lower Ball Joint



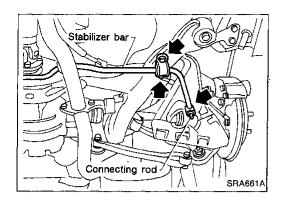
Inspection (Cont'd)

SUSPENSION LOWER BALL JOINT

- Measure swing force, turning torque and vertical end play in axial direction. (Use same measurement procedures as that of FA section.)
- If ball stud is worn, play in axial direction is excessive, or joint is hard to swing, replace lower arm.

	Swing force	7.8 - 54.9 N (0.8 - 5.6 kg, 1.8 - 12.3 lb)
Ball joint specifications	Turning torque	0.5 - 3.4 N·m (5 - 35 kg-cm, 4.3 - 30.4 in-lb)
	Vertical end play	0 mm (0 in)

REAR SUSPENSION — Stabilizer Bar



Removal

Remove connecting rod and clamp.

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Inspection

Check stabilizer bar for deformation or cracks. Replace if LC



Check rubber bushings for deterioration or cracks. Replace if necessary.



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Installation

When installing connecting rod, make sure direction is correct PD (as shown at left).



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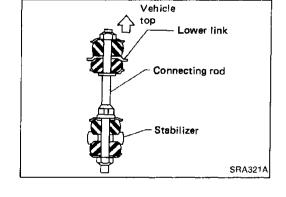
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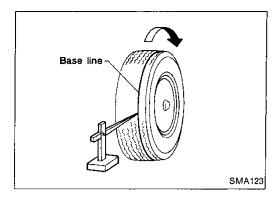
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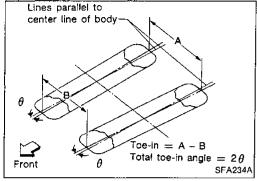


Rear Wheel Alignment

TOE-IN

1. Draw a base line across the tread.

After lowering rear of vehicle, move it up and down to eliminate friction.

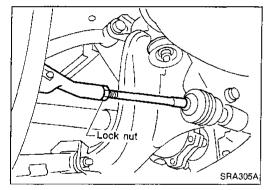


2. Measure toe-in.

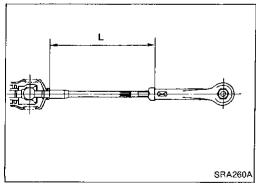
Measure distance "A" and "B" at the same height as hub center.

Toe-in:

Refer to SDS (RA-31).



- 3. Adjust toe-in by varying length of power cylinder lower links.
- (1) Loosen lock nuts.
- (2) Adjust toe-in by turning lower links forward or backward.



Make sure both lower links are the same length.

Standard length "L":

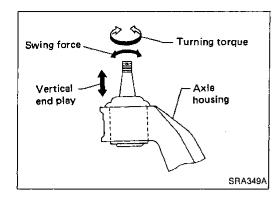
185.5 mm (7.30 in)

(3) Tighten lock nuts to the specified torque.

(1): 37 - 46 N·m

(3.8 - 4.7 kg-m, 27 - 34 ft-lb)

Refer to ON-VEHICLE SERVICE for other procedures.



Rear Axle Housing Ball Joint

INSPECTION

 Measure swing force, turning torque and vertical end play in axial direction.

 If ball stud is worn, play in axial direction is excessive, or joint is hard to swing, replace ball joint.

	Swing force	6.9 - 68.6 N (0.7 - 7.0 kg, 1.5 - 15.4 lb)
Ball joint specifications	Turning torque	0.3 - 2.9 N·m (3 - 30 kg-cm, 2.6 - 26.0 in-lb)
	Vertical end play	0 mm (0 in)



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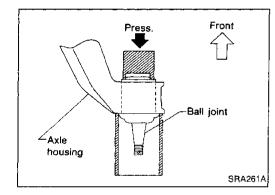
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Axle housing

Front

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Ball joint



Remove ball joint snap ring.

Press out ball joint from axle housing.



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Press new ball joint assembly into axle housing.

Install snap ring into groove of ball joint.

 Refer to REAR AXLE — Wheel Hub and Axle Housing for other procedures.

 Refer to Power Cylinder, SUPER HICAS SYSTEM — Repair of Component Parts in ST section.

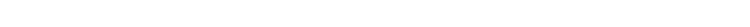


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RA-29

SERVICE DATA AND SPECIFICATIONS (SDS)

General Specifications STRUT

COIL SPRING

Applied model Without HICAS With HICAS Wire diameter mm (in) 12.3 (0.484) 12.6 (0.496) Coil diameter mm (in) Small 103.4 (4.07) 103.1 (4.06) Large 119.3 (4.70) 119.6 (4.71) 430.0 (16.93) 410.0 (16.14) Free length mm (in) Spring constant 19.6 (2.0, 112) 21.6 (2.2, 123) N/mm (kg/mm, lb/in) Red x 1, White x 1, Identification color Orange x 1 Purple x 1

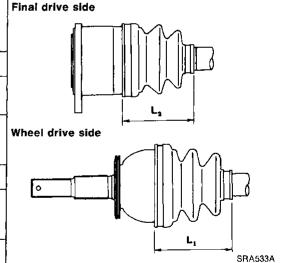
Applied model	All	
Piston rod diameter mm (in)	12.5 (0.492)	
Damping force [at 0.3 m (1.0 ft)/sec.] N (kg, lb)		
Expansion	706 - 961 (72 - 98, 159 - 216)	
Compression	255 - 392 (26 - 40, 57 - 88)	

STABILIZER BAR

Applied model	oplied model Without HICAS	
Diameter mm (in)	19.1 (0.752)	17.3 (0.681)

DRIVE SHAFT

Joint type		Final drive side
Final drive side	DS90	
Wheel side	ZF100	
Grease	Nissan genuine grease or equivalent	
Specified amount of grease g (oz)		Wheel drive side
Final drive side	165 - 175 (5.82 - 6.17)	
Wheel side	150 - 160 (5.29 - 5.64)	
Boot length mm (in)		
Final drive side (L ₂)	93 - 95 (3.66 - 3.74)	•
Wheel side (L ₁)	96 - 98 (3.78 - 3.86)	- <u>-</u>



SERVICE DATA AND SPECIFICATIONS (SDS)

Inspection and Adjustment

WHEEL ALIGNMENT (Unladen*)

Camber	degree	-1°30′ to -0°30′
Toe-in		
A – B	mm (in)	0 - 4 (0 - 0.16)
Total angle 20	degree	0' - 28'

^{*} Fuel, radiator coolant and engine oil full.

Spare tire, jack, hand tools and mats in designated positions.

WHEEL BEARING

Wheel bearing axial end play mm (in)	0.05 (0.0020) or less
Wheel bearing lock nut Tightening torque N·m (kg-m, ft-lb)	206 - 275 (21 - 28, 152 - 203)

WHEEL RUNOUT (Radial and lateral)

Wheel type		Radial runout	Lateral runout
Aluminum wheel	mm (in)	n) 0.3 (0.012) or less	

LOWER BALL JOINT

Swing force (Measuring point: ball stud)	cotter pin hole of N (kg, ib)	7.8 - 54.9 (0.8 - 5.6, 1.8 - 12.3)
Turning torque	N m (kg-cm, in-lb)	0.5 - 3.4 (5 - 35, 4.3 - 30.4)
Vertical end play	mm (in)	0 (0)

LOWER LINK BALL JOINT (SUPER HICAS)

Swing force (at cotter pin hole) N (kg, lb)		6.9 - 68.6 (0.7 - 7.0, 1.5 - 15.4)
Turning torque	N·m (kg-cm, in-lb)	0.3 - 2.9 (3 - 30, 2.6 - 26.0)
Vertical end play	mm (in)	0 (0)

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