REAR AXLE & REAR SUSPENSION

SECTION RA

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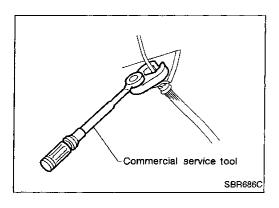
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Precautions

- 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.
- Do not jack up at the lower arm.
- Always torque brake lines when installing.

Special Service Tools

Tool number (Kent-Moore No.) Tool name	Description	
HT71780000 (—) Spring compressor	NT144	Removing and installing coil spring
ST35652000 (—) Shock absorber attachment	NT145	Fixing strut assembly
ST30031000 (J22912-01) Bearing puller	NTO71	Removing inner race of wheel bearing
ST38280000 (—) Arm bushing remover	NT157	Removing and installing bushing of rear axle housing
IM23600800 (—) Attachment Wheel alignment	NT148	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)

PRECAUTIONS AND PREPARATION

Commercial Service Tools

Tool name	Description		
 Flare nut crows foot Torque wrench 		Removing and installing each brake piping	G1 M
Rear wheel hub drift	NT223	Installing bearing a: 49 mm (1.93 in) dia.	EN
	a NT635 ·	b: 41 mm (1.61 in) dia.	LC
Wheel bearing drift		Removing rear wheel hub	EF
	 a NT635	a: 40 mm (1.57 in) dia. b: 26 mm (1.02 in) dia.	[5]
Rear drive shaft plug seal drift	a b (Installing rear drive shaft plug seal	CL
	NT474	a: 85 mm (3.35 in) dia. b: 67 mm (2.64 in) dia.	Mī
Rear axle housing ball joint drift	a b l	Removing ball joint a: 28 (1.10) dia. b: 20 (0.79) dia. c: 43 (1.69) dia.	AT
	NT164	d: 40 (1.57) dia. Unit: mm (in)	PO
Rear axle housing ball ioint drift	a b l	Installing ball joint a: 43 (1.69) dia. b: 33 (1.30) dia. c: 40 (1.57) dia.	FA
	NT164	d: 30 (1.18) dia. Unit: mm (in)	RA

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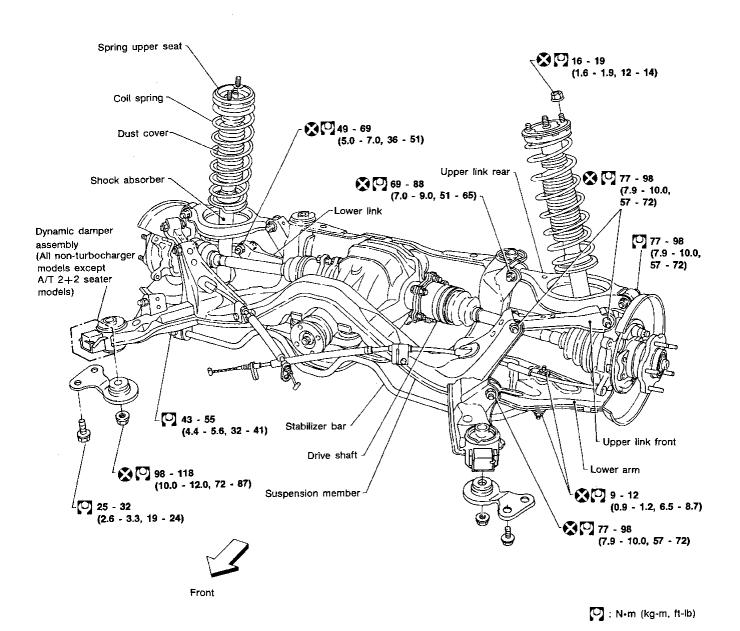
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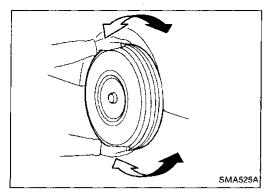
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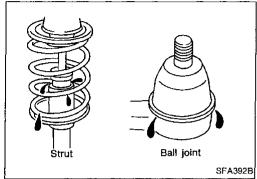
When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground.

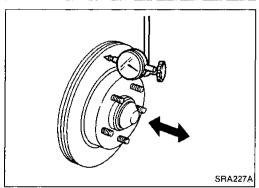
* Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

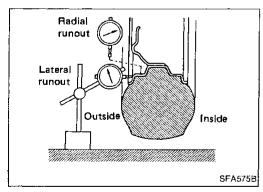


ON-VEHICLE SERVICE









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.
- Retighten all nuts and bolts to the specified torque.

Tightening torque:

Refer to REAR SUSPENSION (RA-16).

- Make sure that cotter pin is inserted.
- Check rear axle and rear suspension parts for wear, cracks or other damage.
- Check shock absorber for oil leakage or other damage.
- Check wheelarch height. Refer to ON-VEHICLE SERVICE in FA section.
- Check suspension ball joint for grease leakage and ball joint dust cover for cracks or other damage.

Rear Wheel Bearing

Check tightening torque of wheel bearing lock nut.

(C): 206 - 275 N·m (21 - 28 kg-m, 152 - 203 ft-lb)

- 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-9).

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 (RA-23).

- 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.)

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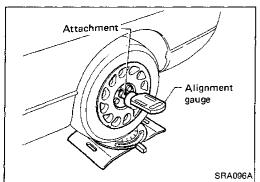
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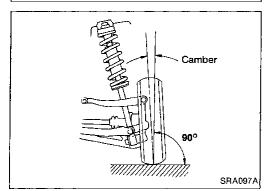
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ON-VEHICLE SERVICE



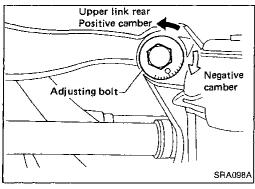
Rear Wheel Alignment (Cont'd) **CAMBER**

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-23).

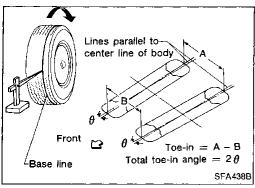


If camber is not within specification, adjust by turning the adjusting bolt.

(1) Turn the adjusting bolt to adjust.

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

(2) Tighten to the specified torque.



TOE-IN

Draw a base line across the tread.

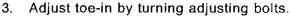
After lowering rear of vehicle, move it up and down to eliminate friction.

Measure toe-in.

Measure distance "A" and "B" at the same height as hub cen-

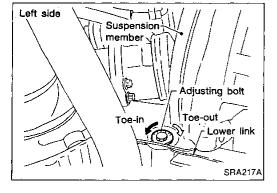
Toe-in:

Refer to SDS (RA-23).

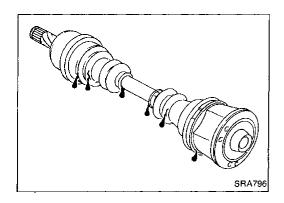


Toe changes about 1.5 mm (0.059 in) [One side] with each graduation of the adjusting bolt.

Tighten to the specified torque.



ON-VEHICLE SERVICE



Drive Shaft

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

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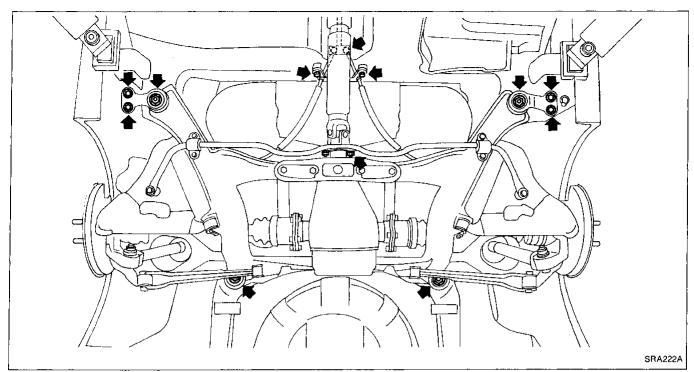
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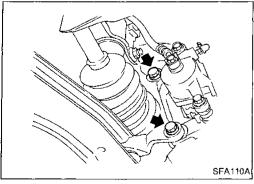
Removal and Installation



- Remove exhaust tube.
- Disconnect propeller shaft rear end.
- Disconnect hand brake wire front end.

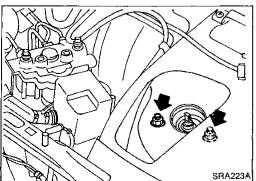
CAUTION:

Before removing the rear axle assembly, disconnect the ABS wheel sensor from the assembly and move it away from the rear axle assembly area. Failure to do so may result in the sensor wires being damaged and the sensor becoming inoperative.



· 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. Make sure brake line is not twisted.

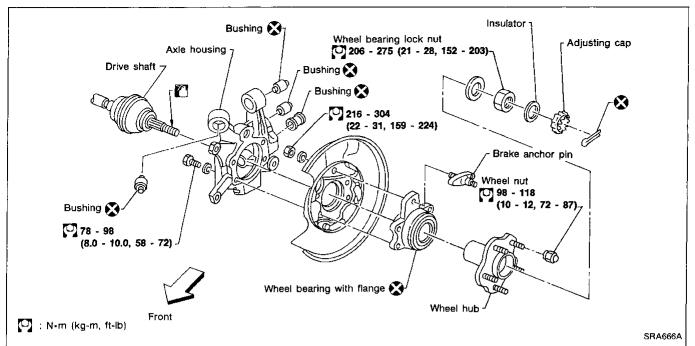


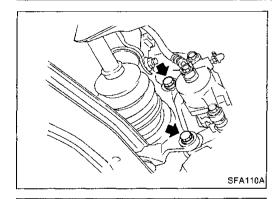
Remove upper end nuts of shock absorber.

Do not remove piston rod lock nut.

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

Wheel Hub and Axle Housing



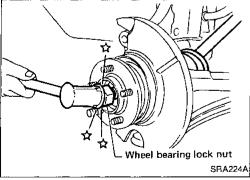




Remove wheel bearing lock nut.

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. Make sure brake line is not twisted.



Separate drive shaft from axle housing by slightly tapping

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

Remove axle housing.

Remove wheel bearing with flange, and wheel hub from axle housing.

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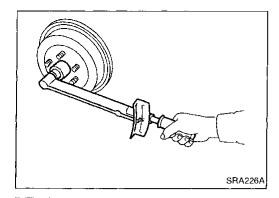
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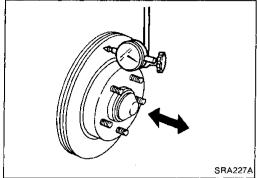
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Wheel Hub and Axle Housing (Cont'd) INSTALLATION

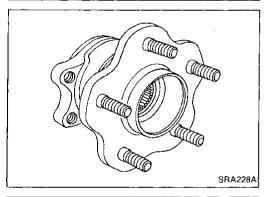
- Install axle housing with wheel hub.
- . Tighten wheel bearing lock nut.

(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



Press

DISASSEMBLY

CAUTION:

Wheel bearing with flange usually does not require maintenance. If any of the following symptoms are noted, replace wheel bearing assembly (including flange, and inner and outer seals).

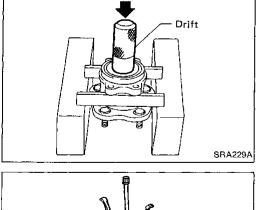
- Growling noise is emitted from wheel bearing during operation.
- Wheel bearing drags or turns roughly when hub is turned with your hand after bearing lock nut is tightened to specified torque.
- After wheel bearing is removed from hub.



 Remove wheel bearing (with flange) and wheel hub as one unit from axle housing before disassembling.

Wheel bearing

- Using a press and drift as shown in figure at left, press wheel bearing out.
- Discard old wheel bearing assembly. Replace with a new wheel assembly.

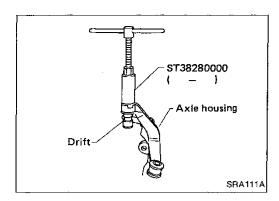


 Remove inner race from hub using a bearing replacer/ puller.

CAUTION:

- a. Do not reuse old inner race although it is of the same brand as the bearing assembly.
- b. Do not replace grease seals as single parts.

REAR AXLE



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Chamfered

Axle

housing

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13° - 23°

Locating boss

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Wheel Hub and Axle Housing (Cont'd)

Axle housing

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

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



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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.

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

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Replace if necessary.

Wheel hub and axle housing



Check wheel hub and axle housing for cracks by using a magnetic exploration or dyeing test.

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Check wheel bearing for damage, seizure, rust or rough

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Check rubber bushing for wear or other damage.

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ASSEMBLY

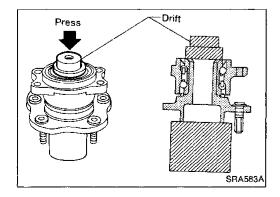


Place hub on a block. Attach a drift to inner race of wheel bearing and press it into hub as shown in figure at left.

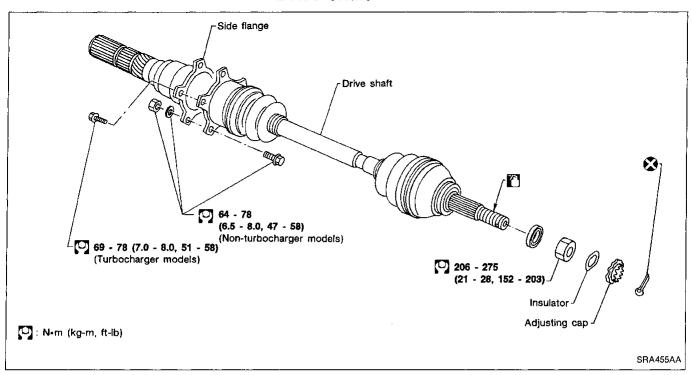
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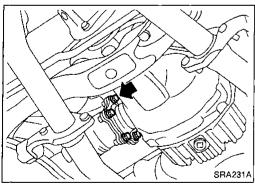
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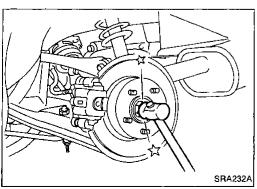
Be careful not to damage grease seal.



Drive Shaft







REMOVAL

- Before removing the drive shaft assembly, disconnect the ABS wheel sensor to prevent the damage of the sensor.
- 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

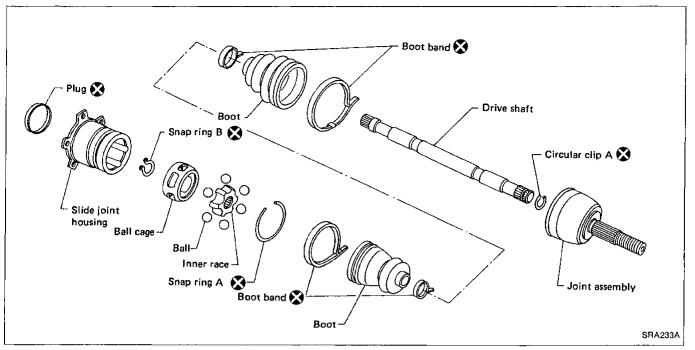
Remove drive shaft by lightly tapping it with a copper hammer

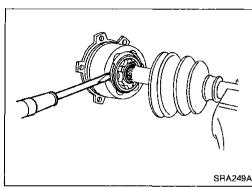
To avoid damaging threads of drive shaft, install a nut while removing drive shaft.

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.

Drive Shaft (Cont'd) COMPONENTS

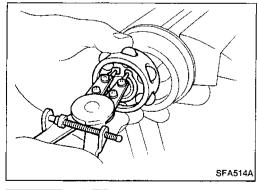






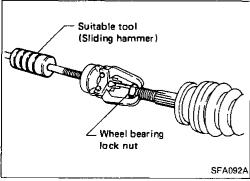
Final drive side

- Remove boot bands.
- 2. Put matchmarks on slide joint housing and inner race, before separating joint assembly.
- 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.



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 a suitable tool.

Be careful not to damage threads on drive shaft.

Remove boot bands.

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Drive Shaft (Cont'd)

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.

Joint assembly (Final drive side)

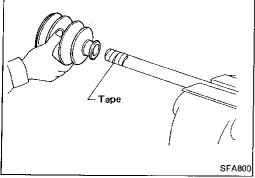
- Replace any parts of double offset joint which show signs of scorching, rust, wear or excessive play.
- Check serration for deformation. Replace if necessary.
- Check slide joint housing for any damage. Replace if necessary.

Joint assembly (Wheel side)

Replace joint assembly if it is deformed or damaged.

ASSEMBLY

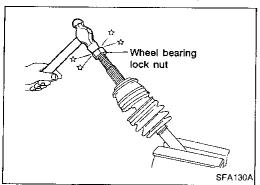
- After drive shaft has been assembled, ensure that it moves smoothly over its entire range without binding.
- Use NISSAN GENUINE GREASE or equivalent after every overhaul.



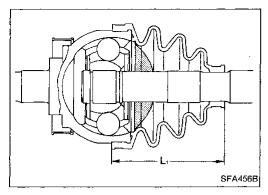
Wheel side

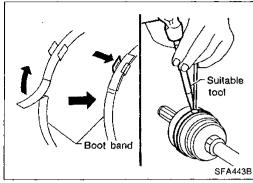
1. Install boot and new small boot band on drive shaft.

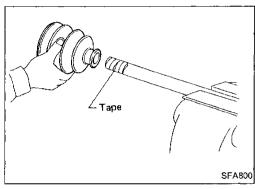
Cover drive shaft serration with tape so as not to damage boot during installation.

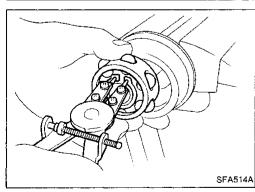


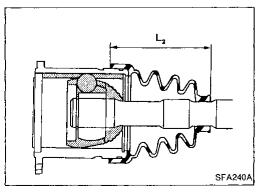
 Set joint assembly onto drive shaft by lightly tapping it.
 Install joint assembly securely, ensuring marks which were made during disassembly are properly aligned.











Drive Shaft (Cont'd)

Pack drive shaft with specified amount of grease.

Specified amount of grease:

Without turbocharger 150 - 160 g (5.29 - 5.64 oz) With turbocharger 170 - 190 g (6.00 - 6.70 oz)

Set boot so that it does not swell and deform when its length is "L1".

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

Length "L1":

Without turbocharger 96 - 98 mm (3.78 - 3.86 in) With turbocharger 101 - 103 mm (3.98 - 4.06 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.

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".

Pack drive shaft with specified amount of grease.

Specified amount of grease:

Without turbocharger 165 - 175 g (5.82 - 6.17 oz) With turbocharger 180 - 200 g (6.35 - 7.05 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 "L,":

Without turbocharger 93 - 95 mm (3.66 - 3.74 in) With turbocharger 102.5 - 104.5 mm (4.04 - 4.11 in)

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

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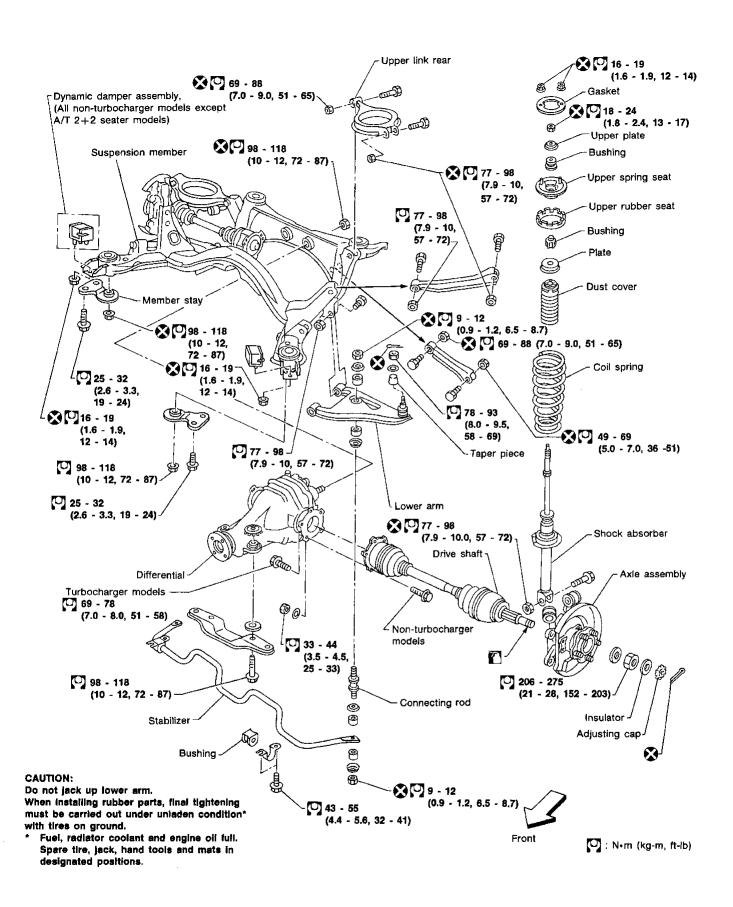
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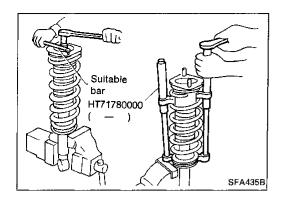
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Coil Spring and Shock Absorber

REMOVAL

- Remove shock absorber upper and lower fixing nuts.
- Do not remove piston rod lock nut on vehicle.

DISASSEMBLY

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

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- 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.

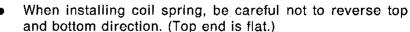
Upper rubber seat and bushing

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

Coil spring

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





as shown in figure at left.

ASSEMBLY

When installing coil spring on strut, it must be positioned

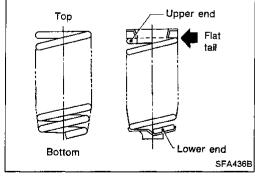
Multi-link and Lower Ball Joint

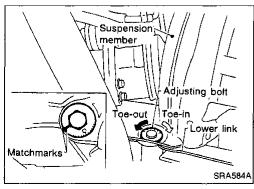
REMOVAL AND INSTALLATION

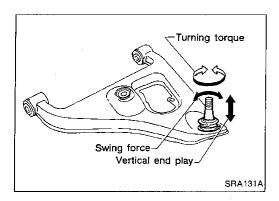
Refer to "Removal and Installation" of REAR AXLE AND REAR SUSPENSION ASSEMBLY (RA-8).

Before removing, put matchmarks on adjusting bolt.

- When installing, final tightening must be done at curb weight with tires on ground.
 - After installation, check wheel alignment. Refer to "Rear Wheel Alignment" of ON-VEHICLE SERVICE (RA-5).







Multi-link and Lower Ball Joint (Cont'd) INSPECTION

Rear suspension member

 Replace suspension member assembly if cracked or deformed or if any part (insulator, for example) is damaged.

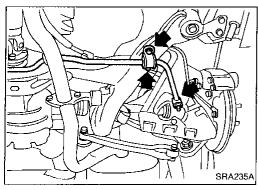
Upper and lower links

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

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)



Stabilizer Bar

REMOVAL

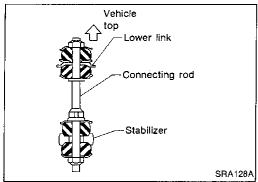
Remove connecting rod and clamp

INSPECTION

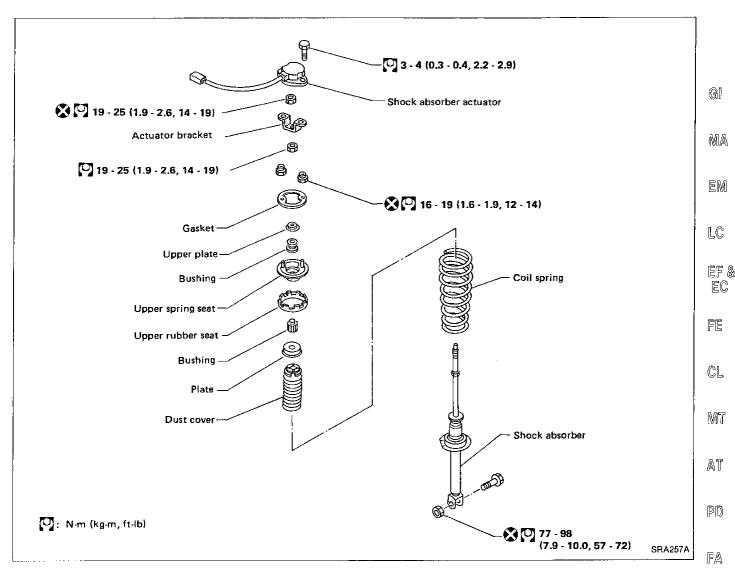
- Check stabilizer bar for deformation or cracks. Replace if necessary.
- Check rubber bushings for deterioration or cracks. Replace if necessary.

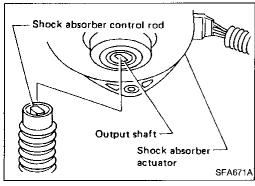


When installing connecting rod,make sure direction is correct (as shown at left).



ADJUSTABLE SHOCK ABSORBER





Removal and Installation

- Remove room trim. Refer to BF section.
- Disconnect sub-harness connector.
- Remove shock absorber actuator fixing bolts.
- Before installing actuator, ensure angle of shock absorber control rod is aligned with that of actuator output shaft. Otherwise, actuator may be damaged.
- Refer to REAR SUSPENSION for other procedures.

Inspection

Replace shock absorber assembly if it is damaged. Refer to REAR SUSPENSION - Coil Spring and Shock Absorber (RA-17).

Trouble Diagnosis

Refer to ADJUSTABLE SHOCK ABSORBER — Trouble Diagnoses in FA section.

> **RA-19** 653

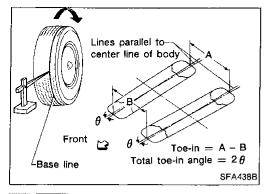
RA

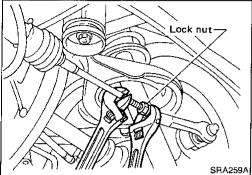
BR

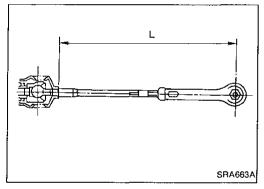
ST

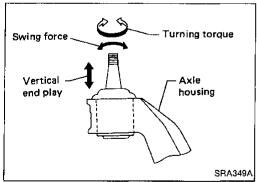
BF

EL









Rear Wheel Alignment

TOE-IN

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-23).

- 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":

290.4 mm (11.43 in)

(3) Tighten lock nuts to the specified torque.

☑: 78 - 98 N·m

(8 - 10 kg-m, 58 - 72 ft-lb)

Refer to ON-VEHICLE SERVICE for other procedures.

Rear Axle Housing Ball Joint

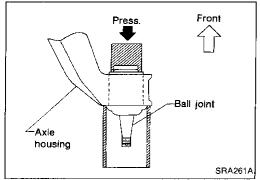
INSPECTION

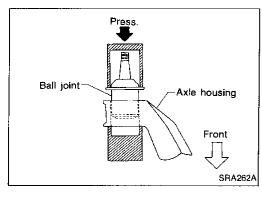
- Measure swing force, turning torque and vertical end play in axial direction.
- If ball joint is worn, play in axial direction is excessive, or joint is hard to swing, replace ball joint.

	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)

SUPER HICAS

Front Press. Ball joint ∠_{Axle} housing





Rear Axle Housing Ball Joint (Cont'd) **REMOVAL**

- Remove ball joint snap ring.
- Press out ball joint from axle housing.

G

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ASSEMBLY

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 SUPER HICAS Trouble Diagnoses in ST section.

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General Specifications

COIL SPRING

		V	G30DE	VG30DETT	
Item		2 seater 2+2 seater, Convertible		2 seater	
Wire diameter	mm (in)	11.4 (0.449)		11.2 (0.441)	
Coil diameter	mm (in)	99.9 (3.933)		99.2 (3.906)	
Free length	mm (in)	371.5 (14.63)	380 (14.96)	370 (14.57)	
Spring constant	N/mm (kg/mm, lb/in)	21.6 (2.2, 123)		23.5 (2.4, 134)	
Identification cold	or	White x 1, Yellow x 1	Purple x 1, Pink x 1	Purple x 1, Light green x 1	

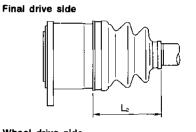
SHOCK ABSORBER

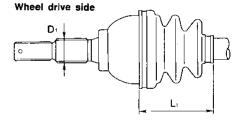
ltem -			gine
		VG30DE VG30DETT	
Piston rod diameter	mm (in)	12.5 (0.492)	14.0 (0.551)

DRIVE SHAFT

	Engine		
Item	VG30DE	VG30DETT	
Joint type			
Final drive side	DS90	DS100	
Wheel side	ZF100	BF100	
Diameter mm (in)	****		
Wheel side D₁	30 (1.18)	33 (1.30)	
Grease	Nissan genuine grease or equivalent		
Specified amount of grease			
Final drive side	165 - 175 (5.82 - 6.17)	180 - 200 (6.35 - 7.05)	
Wheel side	150 - 160 (5.29 - 5.64)	170 - 190 (6.00 - 6.70)	
Boot length mm (in)			
Final drive side (L ₂)	93 - 95 (3.66 - 3.74)	102.5 ~ 104.5 (4.04 - 4.11)	
Wheel side (L ₁)	96 - 98 (3.78 - 3.86)	101 - 103 (3.98 - 4.06)	

Final drive side





SRA668A

REAR STABILIZER BAR

	Engine		
	VG30DE		
ltem	2 seater Convert- ible	2+2 seater	VG30DETT
Stabilizer diameter mm (in)			
Outer	15.9 (0.626)	21.0 (0.827)	25.4 (1.000)
Inner	12.3 (0.484)	15.8 (0.622)	19.4 (0.764)

SERVICE DATA AND SPECIFICATIONS (SDS)

Inspection and Adjustment

WHEEL ALIGNMENT (Unladen*)

Ca	Camber degree		-1°36′ to -0°36′	
To	e-in			
	A B	mm (in)	0.4 - 4.4 (0.016 - 0.173)	
	Total angle 20	degree	2' - 24'	

^{*:} Fuel, radiator coolant end 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)	0.3 (0.012	2) or less

LOWER BALL JOINT

Swing force (Measuring point: cotter pin hole of balf stud) N (kg, lb)	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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