FRONT AXLE AND FRONT SUSPENSION

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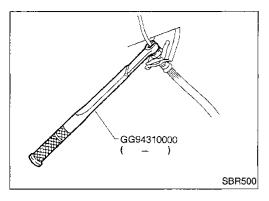
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PRECAUTIONS AND PREPARATION



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

Special Service Tools

Tool number (Kent-Moore No.) Tool name	Description	·
(J25730-A) Ball joint remover	ATTP	Removing tie-rod outer end and lower ball joint
HT71780000 (—) Spring compressor		Removing and installing coil spring .
ST35652000 (—) Strut attachment		Fixing strut assembly
GG94310000 (—) Flare nut wrench		Removing and installing brake piping
(J34296) (J34297) Differential side oil seal protector		Installing drive shaft
		LH: J34296 RH: J34297

FA-2 536

PRECAUTIONS AND PREPARATION

Commercial Service Tools

Tool name	Description		
Attachment Wheel alignment	B A C	Measure 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)	G: MA
		Unit: mm (in)	EM
Flare nut crows foot			LC
			F& —— EC
Torque wrench			
			FE
		·	 at

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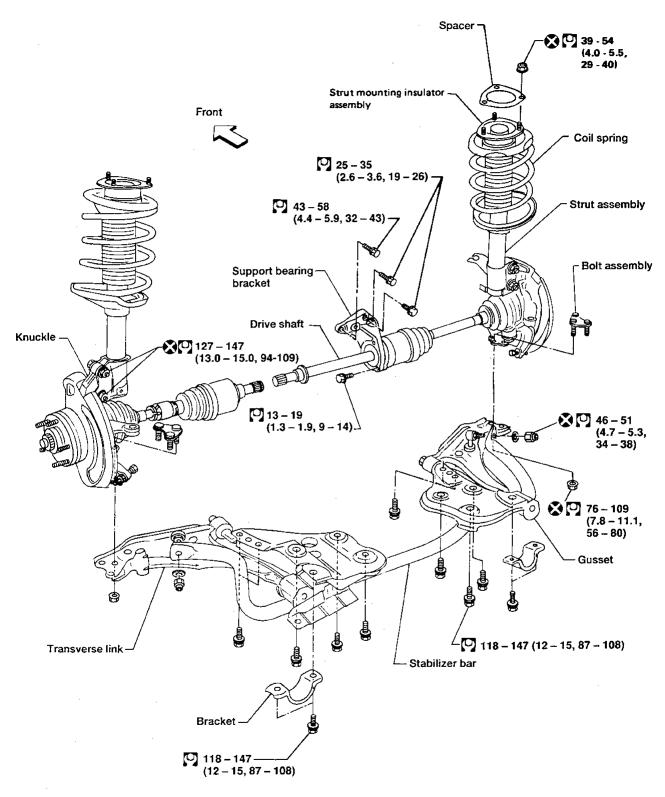
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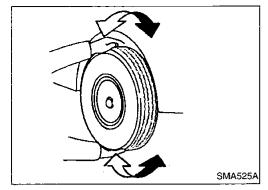


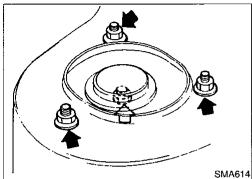
When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground.

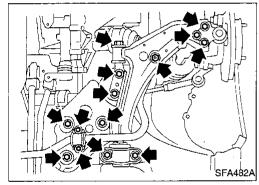
*: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

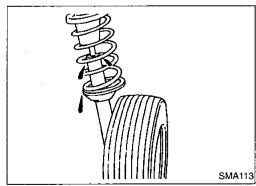
N·m (kg-m, ft-lb)

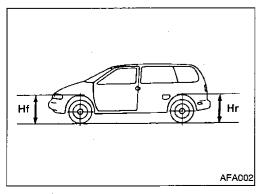
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Front Axle and Front Suspension Parts

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

Shake each front wheel to check for excessive play.

Make sure that all cotter pins are installed.

Tighten all nuts and bolts to the specified torque.

Tightening torque: Refer to FA-23.

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Check strut (shock absorber) for oil leakage or other damage. Large amounts of oil indicate strut may need to be

replaced.

Check wheelarch height from the ground. (1) Vehicle must be unladen*, parked on a level surface, and tires checked for proper inflation and wear (tread wear indicator must not be showing).

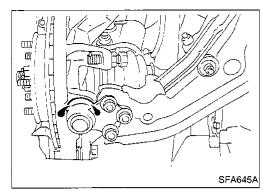
*: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

(2) Bounce vehicle up and down several times before measuring.

Standard height: Refer to FA-29.

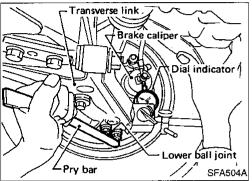
(3) Spring height is not adjustable. If out of specification, check for worn springs or suspension parts.

ON-VEHICLE SERVICE



Front Axle and Front Suspension Parts (Cont'd)

 Check suspension ball joint for grease leakage and ball joint dust cover for cracks or other damage.
 If ball joint dust cover is cracked or damaged, replace ball joint assembly.



Check suspension ball joint end play.

(1) Raise the front of vehicle and set the jack stands in place.

(2) Mount dial indicator onto transverse link and place indicator tor tip on lower edge of brake caliper.

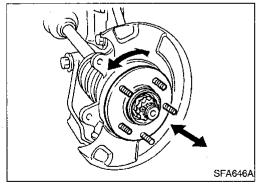
(3) Make sure front wheels are straight and brake pedal is depressed.

(4) Place a pry bar between transverse link and inner rim of the wheel.

(5) While raising and lowering pry bar, observe maximum dial indicator reading.

Vertical end play: 0 mm (0 in)

(6) If ball joint movement is beyond specifications, replace suspension ball joint and recheck vertical end play.



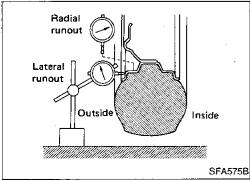
Front Wheel Bearing

- 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 FA-10.



Front Wheel Alignment

Before checking front wheel alignment, be sure to make a preliminary inspection (Unladen*).

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

PRELIMINARY INSPECTION

- Check tires for wear and proper inflation.
- 2. Check wheel runout.

Wheel runout: Refer to FA-30.

and cannot be adjusted.

Front Wheel Alignment (Cont'd)

- 3. Check front wheel bearings for looseness.
- Check front suspension for looseness.
- Check steering linkage for looseness.
- Check that front shock absorbers work properly.

CAMBER, CASTER AND KINGPIN INCLINATION

and left wheels with a suitable alignment gauge.

Camber, caster and kingpin inclination:

Check wheelarch height (Unladen).

Refer to FA-30.

front suspension parts.



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1. Measure camber, caster and kingpin inclination of both right

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Raise the front of the vehicle and draw a base line around the tread.

If camber, caster and kingpin inclination are not within specification, inspect and replace any damaged or worn

Lower front of vehicle, bounce vehicle up and down to normalize wheel position, and set wheels in straight-ahead position.

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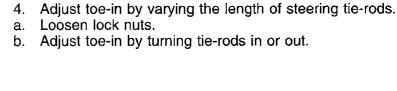
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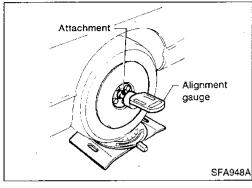
Measure toe-in. Measure distance "A" and "B" at the same height as wheel hub center.

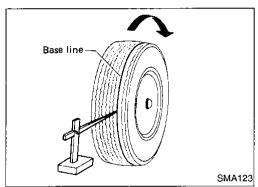
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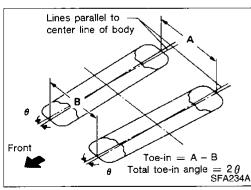
Total toe-in: Refer to FA-30.

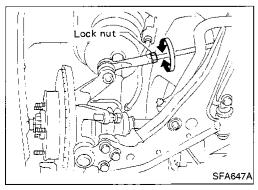
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ON-VEHICLE SERVICE

Lock nut 7

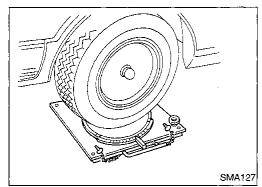
Front Wheel Alignment (Cont'd)

Standard length "L":

Refer to ST section ("Inspection", "STEERING WHEEL AND STEERING COLUMN").

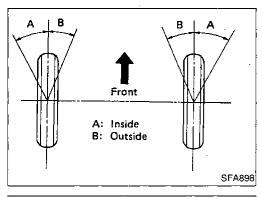
c. Tighten lock nuts to specified torque.

(1): 41 - 81 N·m (4.2 - 8.3 kg·m, 30 - 60 ft-lb)



FRONT WHEEL TURNING ANGLE

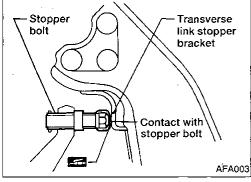
 Set wheels in straight-ahead position and then move vehicle forward until front wheels rest properly on turning radius gauge.



2. Rotate steering wheel all the way right and left with a force of 98 to 147 N (10 to 15 kg, 22 to 33 lb) while engine is running at idle and measure turning angle.

Do not hold the steering wheel on full lock for more than 15 seconds.

Wheel turning angle (Full turn): Refer to FA-30.



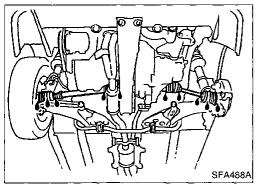
 If stopper bolt head does not contact stopper bracket at specified outside wheel angle, remove stopper bolt cap, loosen stopper bolt lock nut and adjust stopper bolt to contact stopper bracket at the correct angle.

Install stopper bolt cap.

Apply grease to face of stopper bracket that stopper bolt touches.

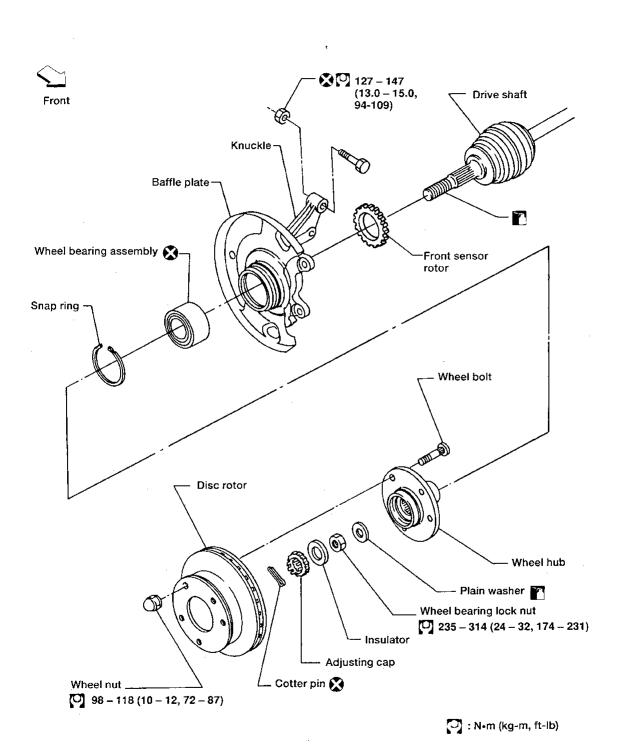
Tighten stopper bolt lock nut.

(5.5 - 7.3 kg-m, 40 - 53 ft-lb)



Drive Shaft

Check for grease leakage or other damage.



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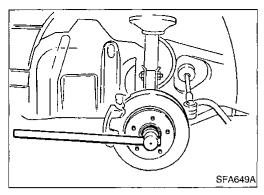
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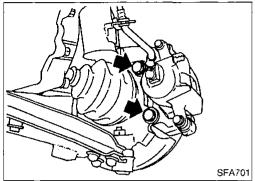
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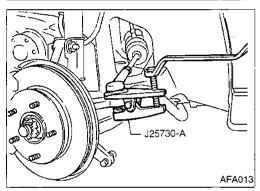
Removal

Remove wheel bearing lock nut.

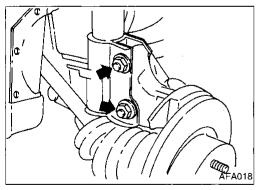


Remove brake caliper assembly and rotor.

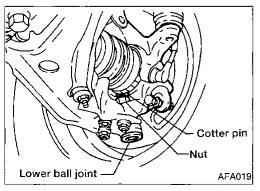
Suspend caliper assembly with wire so as not to stretch brake hose. Make sure brake hose is not twisted. Be careful not to depress brake pedal, or piston will pop out.



Separate tie-rod ball joint from knuckle with Tool.
 Install stud nut on stud bolt with castellated side facing up to prevent damage to stud bolt.



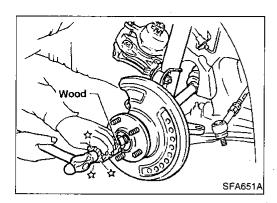
Remove nuts and bolts shown at left.



- Remove cotter pin and nut securing lower ball joint to knuckle.
- Strike knuckle with a hammer and pull down control arm to separate lower ball joint from knuckle.

FA-10 544

FRONT AXLE — Wheel Hub and Knuckle



Removal (Cont'd)

• Separate drive shaft from knuckle by lightly tapping it. If it is hard to remove, use a puller.

Cover boots with shop towel so as not to damage them when removing drive shaft.

Remove knuckle with wheel hub.

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Installation

- Install knuckle with wheel hub.
- Replace strut lower mounting nuts.

When installing knuckle to strut, be sure to hold bolts and tighten nuts.

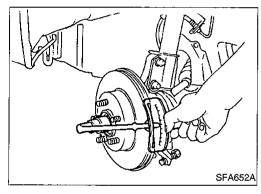
(13.0 - 15.0 kg-m, 94 - 108 ft-lb)

Tighten tie-rod ball joint nut.

(3.0 - 4.0 kg-m, 22 - 29 ft-lb)

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Before tightening wheel bearing lock nut, apply oil to threaded portion of drive shaft and to both sides of plain washer.

Tighten wheel bearing lock nut.

(24 - 32 kg-m, 174 - 231 ft-lb)

Check that wheel bearings operate smoothly.

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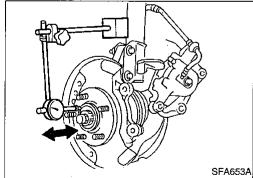
Check wheel bearing axial end play.
 Axial end play:

0.05 mm (0.0020 in) or less

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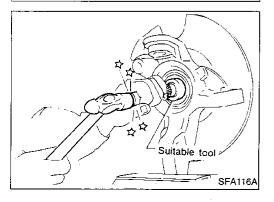
Disassembly

CAUTION:

When removing wheel hub or wheel bearing from knuckle, replace wheel bearing assembly with a new one.

WHEEL HUB

Remove wheel hub from knuckle with a suitable tool.

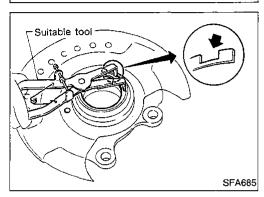


FRONT AXLE — Wheel Hub and Knuckle

Suitable tool

Disassembly (Cont'd)

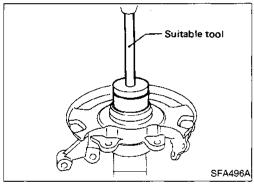
 If wheel bearing inner race (outside) is removed together with wheel hub, press out wheel bearing inner race.



WHEEL BEARING

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Remove snap ring with suitable tool.



Press out wheel bearing.

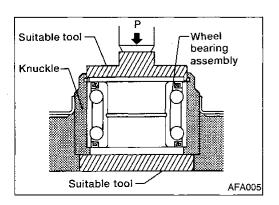
Inspection

WHEEL HUB AND KNUCKLE

Check wheel hub and knuckle for cracks by using a magnetic exploration or dye test.

SNAP RING

Check snap ring for wear, cracks or distortion. Replace if necessary.



Assembly

- 1. Press new wheel bearing assembly into knuckle.
- Press only on outer race of wheel bearing assembly.
 Maximum load P:

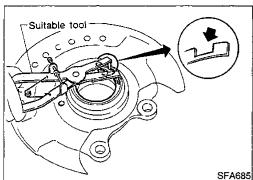
29 kN (3 ton, 3.3 US ton, 3.0 Imp ton)

CAUTION:

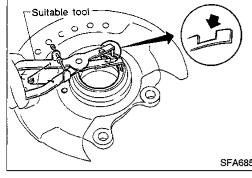
- Do not press inner race of wheel bearing assembly.
- Do not apply oil or grease to mating surfaces of wheel bearing outer race and knuckle.

FRONT AXLE — Wheel Hub and Knuckle

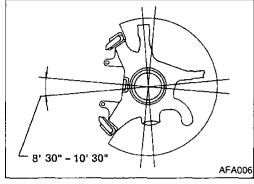
Assembly (Cont'd)



2. Install snap ring into groove of knuckle.

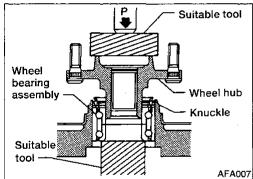


Install baffle plate and splash guard onto knuckle.



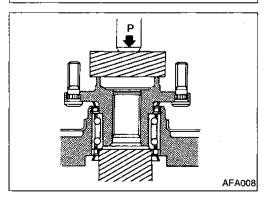
Press wheel hub into knuckle. Maximum load P:

29 kN (3 ton, 3.3 US ton, 3.0 Imp ton) Wheel bearing inner race must be held as shown.



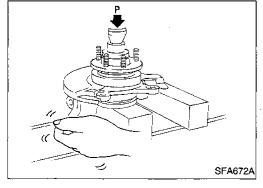
Check wheel bearing end play.





Load P: 39.2 - 82.4 kN

(4.0 - 8.4 ton, 4.4 - 9.3 US ton, 3.94 - 8.27 lmp ton)



(2) Spin knuckle several turns in both directions.

(3) Make sure that wheel bearings operate smoothly.

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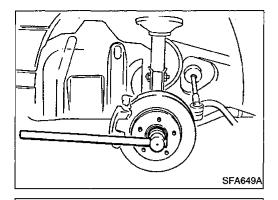
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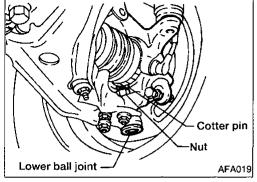
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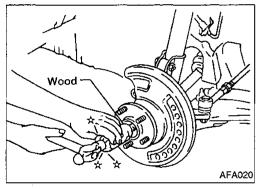
Removal

Remove wheel bearing lock nut.

Brake caliper need not be disconnected. Do not twist or stretch brake hose when moving components.

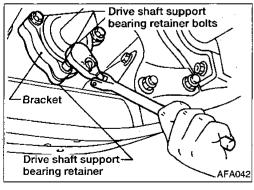


- Remove cotter pin and nut securing lower ball joint to knuckle.
- Strike knuckle with a hammer and pull down control arm to separate lower ball joint from knuckle.



 Separate drive shaft from knuckle by lightly tapping it. If it is hard to remove, use a puller.

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



- 1. Remove drive shaft support bearing retainer bolts.
- 2. Remove right drive shaft from transaxle.

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A/T model Screwdriver 5 mm (0.20 in) mate shaft Side gear Drive shaft AFA035

KV38106800 (J34297)

> KV38106700 (J34296)

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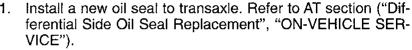
Removal (Cont'd)

- Remove left drive shaft with a suitable tool.
- Insert screwdriver into transaxle opening for right drive shaft and strike with a hammer.

Be careful not to damage pinion mate shaft and side gear.

Installation

TRANSAXLE SIDE



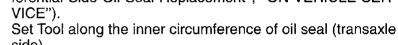
side).

Insert drive shaft into transaxle. Be sure to properly align the serrations and then remove Tool.

4. Push drive shaft, so circular clip on the drive shaft seats into circular clip groove of side gear.

hand. If it pulls out, the circular clip is not properly seated with the side gear.







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5. After installing, try to pull the flange out of the slide joint by

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- Install drive shaft into knuckle.
- Tighten wheel bearing lock nut. Refer to FA-11.



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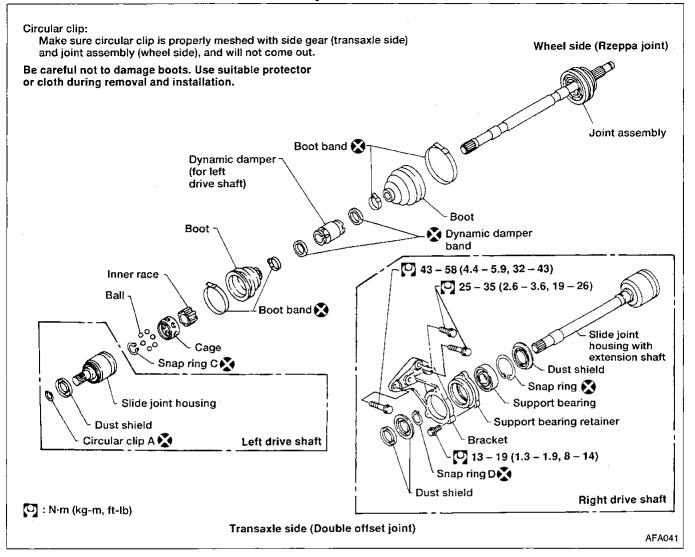




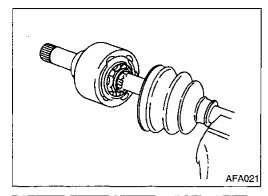


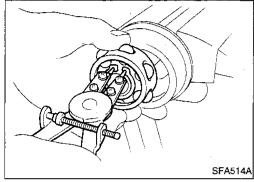


Components



FA-16

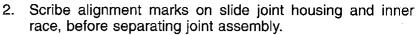




Disassembly

TRANSAXLE SIDE

Remove boot bands.



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Scribe alignment marks on inner race and drive shaft.

Remove snap ring, then remove ball cage, inner race and balls as a unit.

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

5. Remove boot from drive shaft.

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WHEEL SIDE

CAUTION:

The joint on the wheel side cannot be disassembled from the shaft.

Remove boot bands and the boot.

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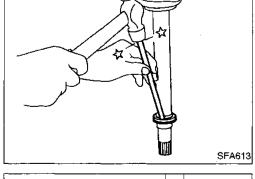
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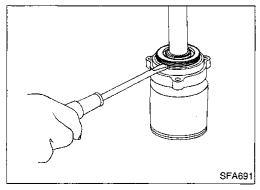
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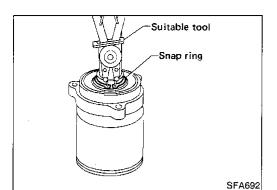
Remove dust shield.



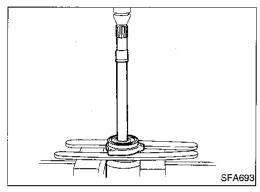


FRONT AXLE — Drive Shaft

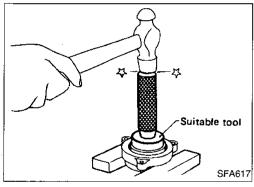
Disassembly (Cont'd)



Remove snap ring.



Press support bearing assembly off of drive shaft.



Remove support bearing from retainer.

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 (Transaxle side)

Replace joint assembly if it is deformed or damaged.

JOINT ASSEMBLY (Wheel side)

Replace joint assembly with shaft if it is deformed or damaged.

FA-18 552

Inspection (Cont'd) SUPPORT BEARING

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

(G)

SUPPORT BEARING BRACKET

Check support bearing bracket for cracks with a magnetic exploration or dye test.

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Assembly

After drive shaft has been assembled, make sure that it escaped moves smoothly over its entire range without binding.

Use NISSAN GENUINE GREASE or equivalent after every overhaul.



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Tape AFA009

WHEEL SIDE

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

RA

 Install boot and new small boot band on drive shaft from transaxle joint side.

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Pack drive shaft joint with specified amount of grease.

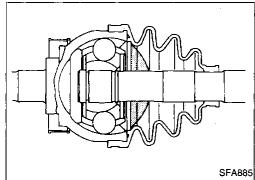
Specified amount of grease:

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175 - 195 g (6.17 - 6.88 oz)

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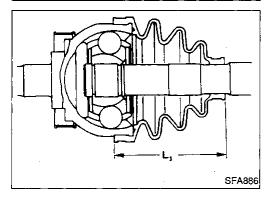


3. Make sure that boot is properly installed in the groove on the wheel side joint.

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

Length "L1":

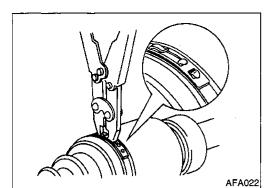
86.5 - 88.5 mm (3.406 - 3.484 in)



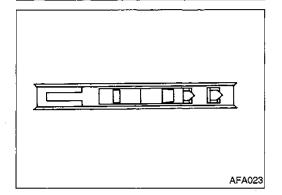
FA-19

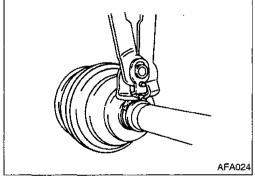
FRONT AXLE — Drive Shaft

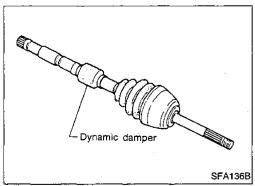
Assembly (Cont'd)

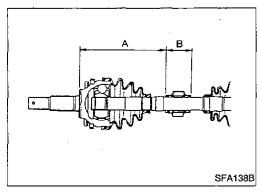


4. Lock new larger and smaller boot bands securely with a suitable tool.









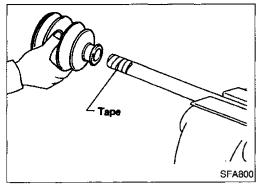
DYNAMIC DAMPER

- 1. Use new damper band when installing.
- 2. Install dynamic damper from transaxle joint side while holding it securely.

Length:

"A" 199 - 205 mm (7.83 - 8.07 in)

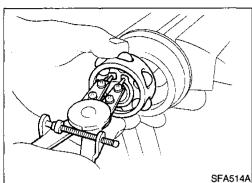
"B" 70 mm (2.76 in)



Assembly (Cont'd) TRANSAXLE SIDE

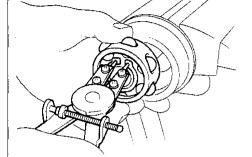
Cover drive shaft serration with tape to prevent damaging boot during installation.

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



Securely install ball cage, inner race and balls as a unit, making sure the alignment marks which were made during disassembly are properly aligned.

3. Install new snap ring.



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

210 - 230 g (7.41 - 8.11 oz)

Install slide joint housing.

Make sure that boot is properly installed on the drive shaft

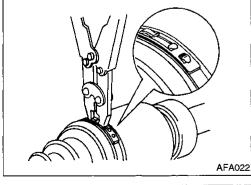
Set boot so that it does not swell and deform when its length is "L2".

Length "L2": 101.4 - 103.4 mm (3.99 - 4.07 in)



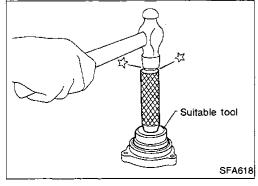
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Lock new larger and smaller boot bands securely with a suitable tool.



SUPPORT BEARING

Install bearing into retainer.





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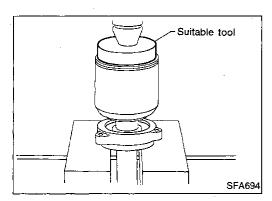
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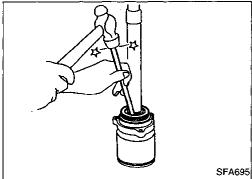
IDX

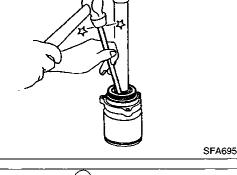
FRONT AXLE — Drive Shaft

Assembly (Cont'd)

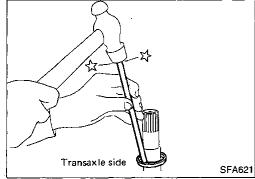


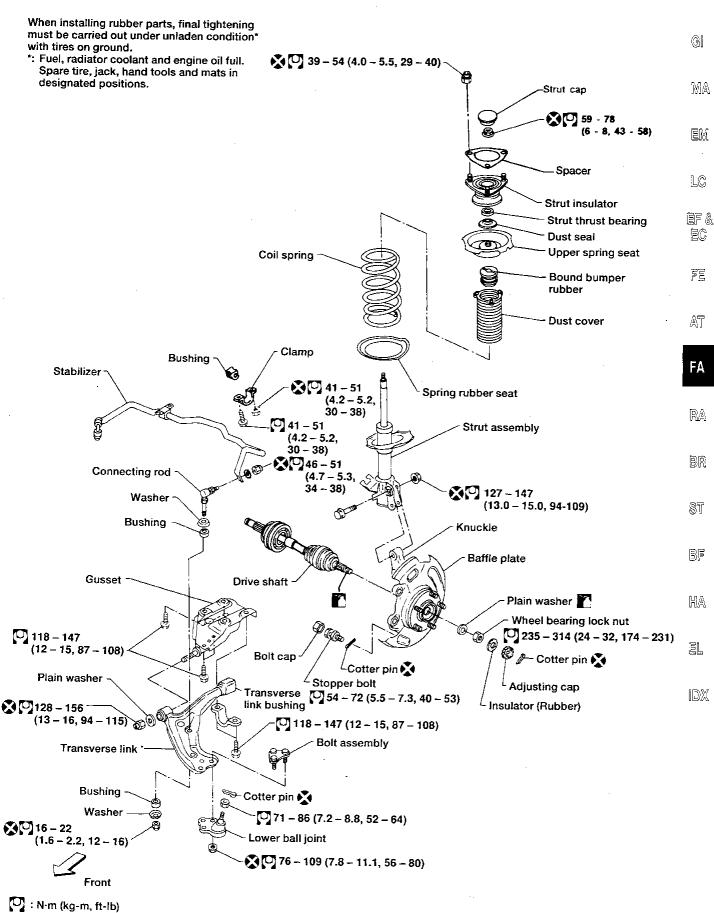
Press support bearing assembly onto drive shaft.





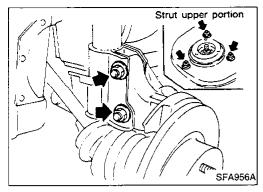
Install snap ring. Install new dust shield.





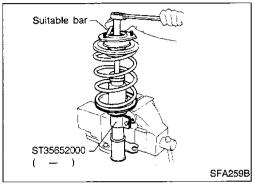
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FRONT SUSPENSION — Coil Spring and Strut Assembly



Removal and Installation

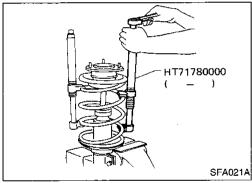
Remove strut assembly fixing bolts and nuts (to hoodledge).
 Do not remove piston rod lock nut on vehicle.



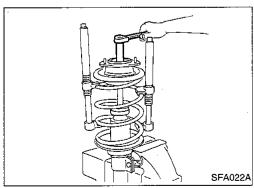
Disassembly

Do not remove piston rod lock nut at this time. Be careful not to damage brake hose bracket.

 Set strut assembly in vise with Tool, then loosen piston rod lock nut.



2. Compress spring with Tool so that the strut mounting insulator can be turned by hand.



3. Remove piston rod lock nut.

Inspection

STRUT ASSEMBLY

- Check for smooth operation through a full stroke, both compression and extension.
- Check for oil leakage around the strut cap area.
- Check piston rod for cracks, deformation or other damage. Replace if necessary.

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Inspection (Cont'd) MOUNTING INSULATOR

Check rubber-to-metal bond for separation or cracks. Check rubber parts for deterioration. Replace if necessary.

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THRUST BEARING

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Check thrust bearing for abnormal noise or excessive rattle in axial direction.

Replace if necessary.

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COIL SPRING AND RUBBER SEAT

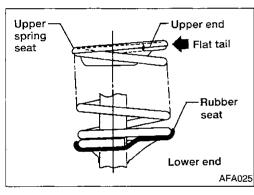
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Check for cracks, deformation or other damage. Replace if necessary.

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Assembly

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

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Be sure to match step in rubber seat with step in lower spring seat.

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Installing upper spring seat with its cutout facing the outer side of vehicle, in line with the strut-to-knuckle attachment

points (±3°).

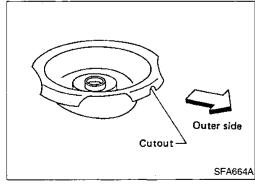
AK

Replace strut lower mounting nuts.

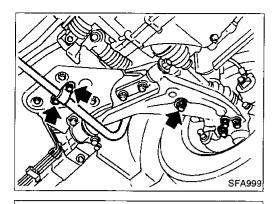
When installing strut to knuckle, be sure to hold bolts and tighten nuts.

(C): 127 - 147 N·m (13.0 - 15.0 kg-m, 94 - 108 ft-lb)

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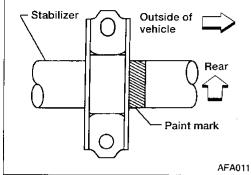


FA-25 559

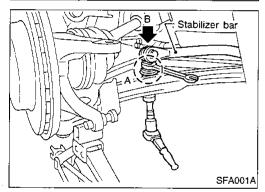


Removal and Installation

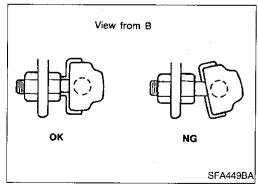
- Make sure that dust boot is not damaged during removal or installation.
- Remove stabilizer bar.



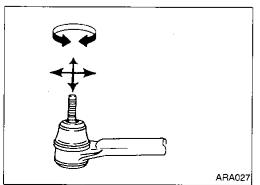
 When installing stabilizer, make sure that paint mark and clamp face in their correct directions.



When removing and installing stabilizer bar, hold portion A.



Install stabilizer bar with ball joint socket properly placed.

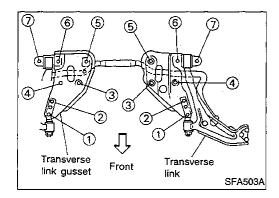


Inspection

- Check stabilizer bar for deformation or cracks, Replace if necessary.
- Check rubber bushings for deterioration or cracks. Replace if necessary.
- Make sure ball joint can rotate in all directions. If movement is not smooth and free, replace stabilizer bar link.

FA-26 560

FRONT SUSPENSION — Transverse Link and Transverse Link Gusset



Removal and Installation

- Remove stabilizer bar.
- Remove attaching bolts.
- Install bolts in order of number as shown at left.

Tightening torque: Refer to FA-23.

- During installation, final tightening must be carried out at curb weight with tires on the ground.
- After installation, check wheel alignment. Refer to FA-6.

Inspection

- Check transverse link for damage, cracks or deformation. Replace if necessary.
- Check rubber bushing for damage, cracks and deformation.
 Replace transverse link if necessary.
- Check transverse link gusset for damage, cracks or deformation. Replace if necessary.



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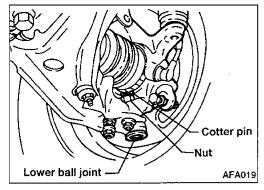
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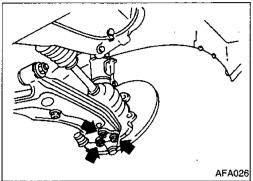
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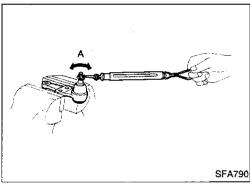


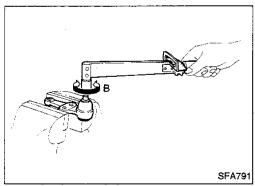


Removal and Installation

- Remove cotter pin and nut securing lower ball joint to knuckle.
- 2. Strike knuckle with a hammer and pull down control arm to separate lower ball joint from knuckle.

3. Remove nuts as shown at left.





Inspection

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

Before checking, turn ball joint at least 10 revolutions so that ball joint is properly broken in.

Swinging force "A":

(measuring point: cotter pin hole of ball stud)

7.8 - 51.0 N (0.8 - 5.2 kg, 1.8 - 11.5 lb)

Turning torque "B":

0.5 - 3.4 N·m (5 - 35 kg-cm, 4.3 - 30.4 in-lb)

Vertical end play:

0 mm (0 in)

 Check dust cover for damage. Replace dust cover and cover clamp if necessary.

FA-28 562

SERVICE DATA AND SPECIFICATIONS (SDS)

General Specifications

COIL SPRING

	····		
Applied model		All	
Wire diameter	mm (in)	15 (0.59)	
Coil diameter	mm (in)	160 (6.30)	
Free length	mm (in)	391 (15.39)	
Spring constant N/mm (kg/mm, lb/in)	26.5 (2.7, 151)	
Identification		VXE	

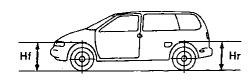
STRUT

Applied model	Standard	Option
Piston rod diameter mm (in)	22 (0.87)
Damping force [at 0.3 m (1.0 ft)/sec.] N (kg, ib)		
Expansion	902 - 1,216 (92 - 124, 203 - 273)	941 - 1,275 (96 - 130, 212 - 287)
Compression	235 - 373 (24 - 38, 53 - 84)	265 - 402 (27 - 41, 60 - 90)

FRONT STABILIZER BAR

Applied model		All
Stabilizer diameter	mm (in)	33 (1.30) Solid
Identification color		Orange

WHEELARCH HEIGHT (Unladen*)



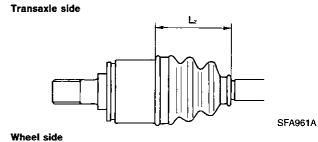
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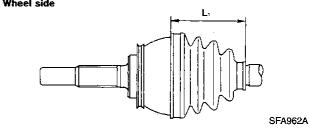
Applied model	All
Front (Hf) mm (in)	
Standard/Optional suspension	772 ± 10 (30.39 ± 0.39)
Rear (Hr) mm (in)	
Standard suspension	793 ± 10 (31.22 ± 0.39)
Optional suspension	793 ± 10 (31.22 ± 0.39)

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

DRIVE SHAFT

Applied model	All
Joint type	
Transaxle side	DOJ
Wheel side	Rzeppa
Grease	Nissan genuine grease or equivalent
Capacity g (oz)	
Transaxle side	210 - 230 (7.41 - 8.11)
Wheel side	175 - 195 (6.17 - 6.88)
Boot length mm (in)	
Transaxle side "L2"	101.4 - 103.4 (3.99 - 4.07)
Wheel side "L ₁ "	86.5 - 88.5 (3.406 - 3.484)







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SERVICE DATA AND SPECIFICATIONS (SDS)

Inspection and Adjustment LOWER BALL JOINT

WHEEL ALIGNMENT (Unladen*1)

Applied model		Ali
Camber	degree	-27' to 1°03'
Caster	degree	3' - 1°33'
Kingpin inclination	n degree	12°50′ - 14°20′
Toe-in		·
A – B	mm (in)	2 - 4 (0.08 - 0.16)
Total angle 2	2θ degree	11.0′ - 22.0′
Front wheel turn	ing angle	
Full turn*2	Inside	36° - 40°
ruii turn"2	Outside	28° - 32°

^{*1:} Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

Swinging force (Measured at cotter pin hole) N (kg, lb) 7.8 - 51.0 (0.8 - 5.2, 1.8 - 11.5) Turning torque N·m (kg-cm, in-lb) 0.5 - 3.4 (5 - 35, 4.3 - 30.4) Vertical end play limit mm (in) 0 (0)

WHEEL RUNOUT

Unit: mm (in)

Wheel type	Aluminum wheel	Steel wheel
Maximum radial runout limit	0.3 (0.012)	0.8 (0.031)
Maximum lateral runout limit	0.3 (0.012)	0.8 (0.031)

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)	235 - 314 (24 - 32, 174 - 231)

FA-30 564

^{*2:} On power steering models, wheel turning force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine idle.