## FRONT AXLE & FRONT SUSPENSION

**SECTION** 

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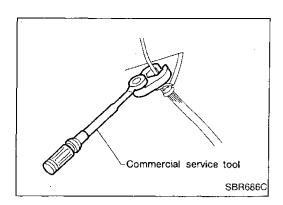
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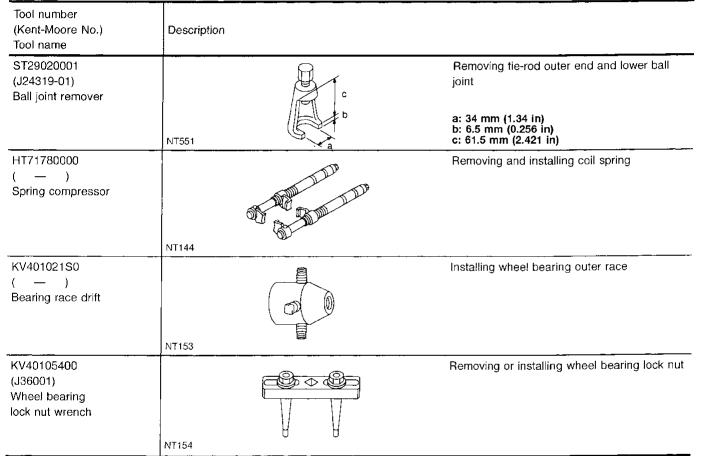


#### Precautions

- When installing rubber parts, final tightening must be carried out under unladen condition\* with tires on ground.
  - Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
- Use flare nut wrench when removing or installing brake tubes.
- After installing removed suspension parts, check wheel alignment and adjust if necessary.
- Always torque brake lines when installing.

#### **Special Service Tools**

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



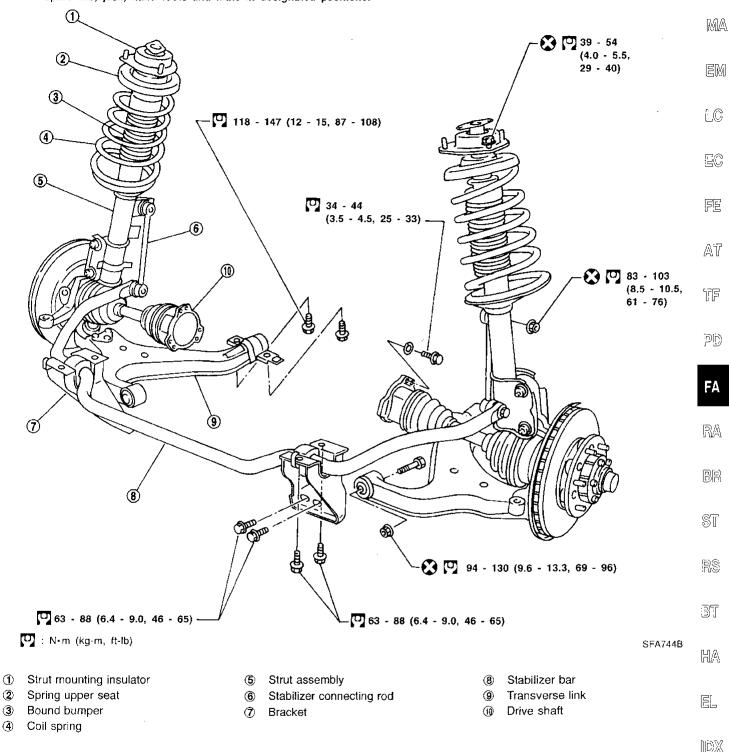
#### **Commercial Service Tools**

Tool name	Description	
<ol> <li>Flare nut crowfoot</li> <li>Torque wrench</li> </ol>		Removing and installing each brake piping
	NT360	a: 10 mm (0.39 in)
Hub cap drift		Installing hub cap
	ab	a: 57 mm (2.24 in) dia.
	NT115	b: 46 mm (1.81 in) dia.

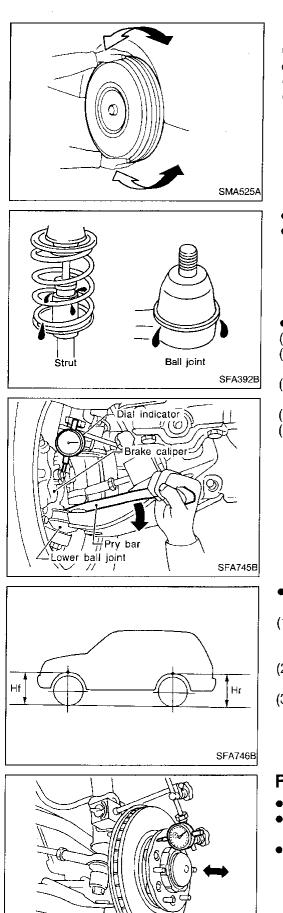
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When installing rubber parts, final tightening must be carried out under unladen condition\* with tires on ground. \* Fuel, radiator coolant and engine oil full.

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



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#### Front Axle and Front Suspension Parts

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

- Shake each front wheel to check for excessive play.
- Retighten all axle and suspensions nuts and bolts to the specified torque.
  - Tightening torque: Refer to FRONT SUSPENSION (FA-19).
- Check strut (shock absorber) for oil leakage or other damage.
- 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) Jack up front of vehicle and set the stands.
- (2) Clamp dial indicator onto transverse link and place indicator 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 knuckle.
- (5) While raising and releasing pry bar, observe maximum dial indicator value.

#### Vertical end play: 0 mm (0 in)

If ball joint vertical end play exists, remove lower ball joint assembly and recheck the ball joint. Refer to FA-22.

- Check spring height from top of wheelarch to ground using the following procedure.
- (1) Park vehicle on a level surface with vehicle unladen\* .
  - \*: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
- (2) Check tires for proper inflation and wear (tread wear indicator must not be showing).
- (3) Bounce vehicle up and down several times and measure dimensions Hf and Hr. Refer to SDS (FA-25). Spring height is not adjustable. If out of specification, check for worn springs or suspension parts.

#### **Front Wheel Bearing**

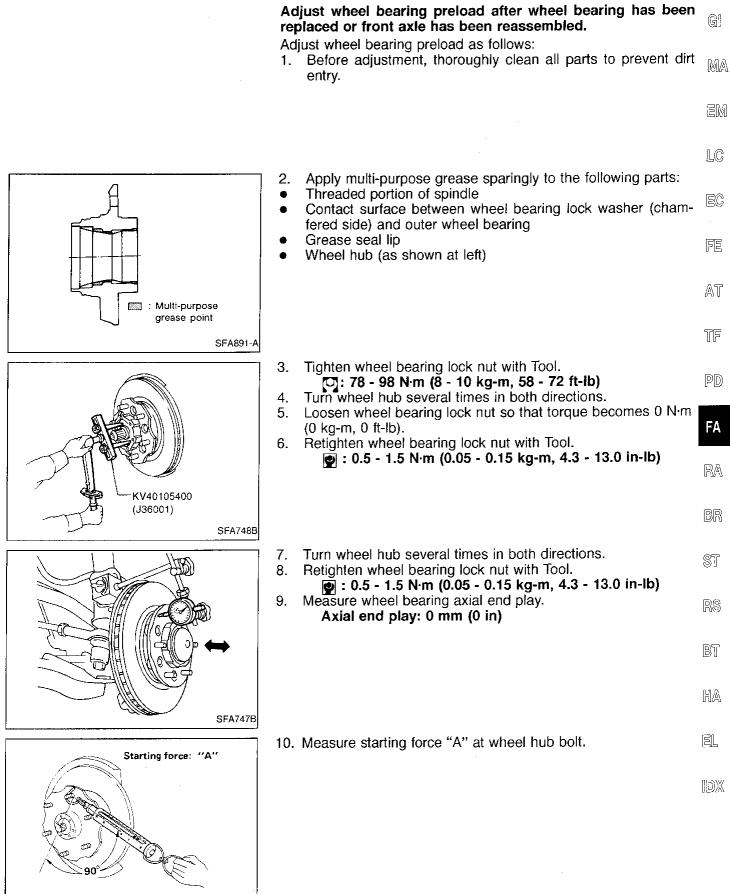
- Check that wheel bearings operate smoothly.
- Check axial end play. Axial end play: 0 mm (0 in)
- Adjust wheel bearing preload if there is any axial end play or wheel bearing does not turn smoothly.

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#### **ON-VEHICLE SERVICE**

#### Front Wheel Bearing (Cont'd) PRELOAD ADJUSTMENT



SMA580A

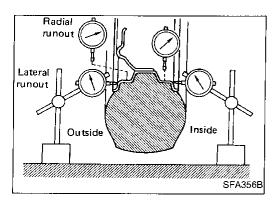
#### **ON-VEHICLE SERVICE**

# SFA830

- Front Wheel Bearing (Cont'd)11. Install lock washer by tightening the lock nut within 15 to 30 degrees.
- 12. Turn wheel hub several times in both directions to seat wheel bearing correctly.
- 13. Measure starting force "B" at wheel hub bolt. Refer to procedure 10.
- 14. Wheel bearing preload "C" can be calculated as shown below.

#### Wheel bearing preload "C": 7.06 - 20.99 N (0.72 - 2.14 kg, 1.59 - 4.72 lb)

- 15. If wheel bearing preload "C" is outside specifications, remove lock washer. Tighten or loosen lock nut within ±15 degrees (Refer to step 11 above). Install lock washer, then repeat steps 12, 13 and 14.
- 16. Repeat above procedures until correct axial end play and wheel bearing preload are obtained.
- 17. Install drive flange and wheel hub cap.



#### 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, hand tools and mats in designated positions.

#### PRELIMINARY INSPECTION

- 1. Check tires for wear and improper inflation.
- Check wheel runout on outside and inside.
   Wheel runout average
   [(Outside runout value + Inside runout value) x 0.5]:

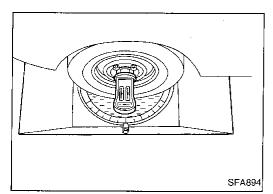
#### Refer to SDS (FA-25).

- 3. Check front wheel bearings for looseness.
- 4. Check front suspension for looseness.
- 5. Check steering linkage for looseness.
- 6. Check that struts work properly.
- 7. Check vehicle posture (Unladen).

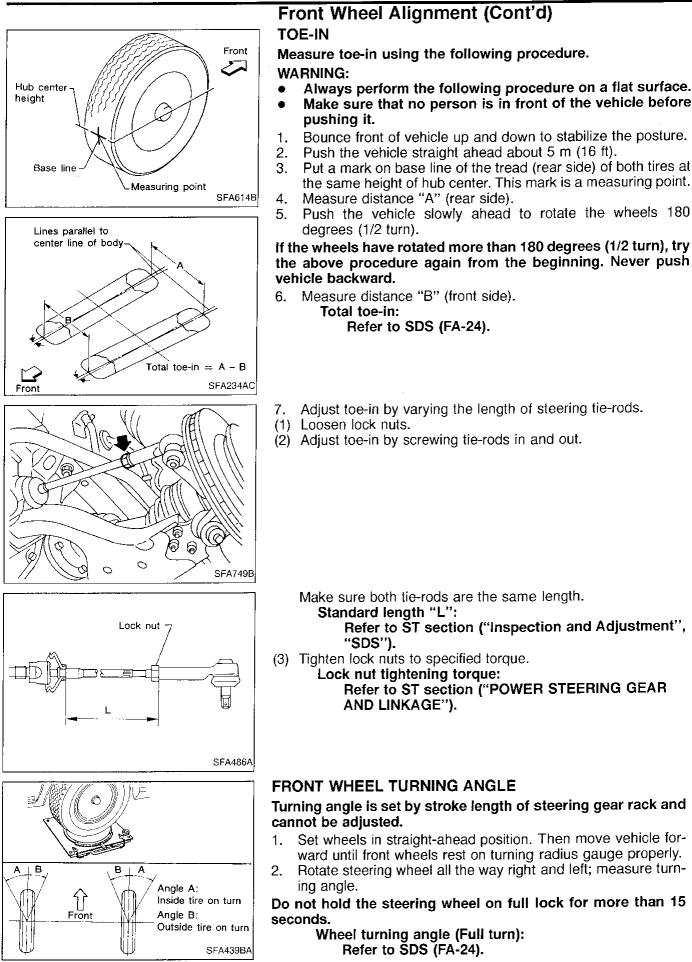


## Camber, caster and kingpin inclination are preset at factory and cannot be adjusted.

- Measure camber, caster and kingpin inclination of both right and left wheels with a suitable alignment gauge.
   Camber, Caster and Kingpin inclination: Refer to SDS (FA-24).
- 2. If camber, caster or kingpin inclination is not within specification, inspect front suspension parts. Replace damaged or worn out parts.



#### **ON-VEHICLE SERVICE**



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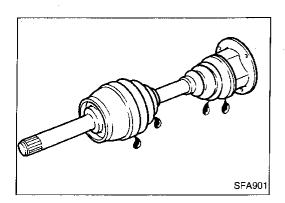
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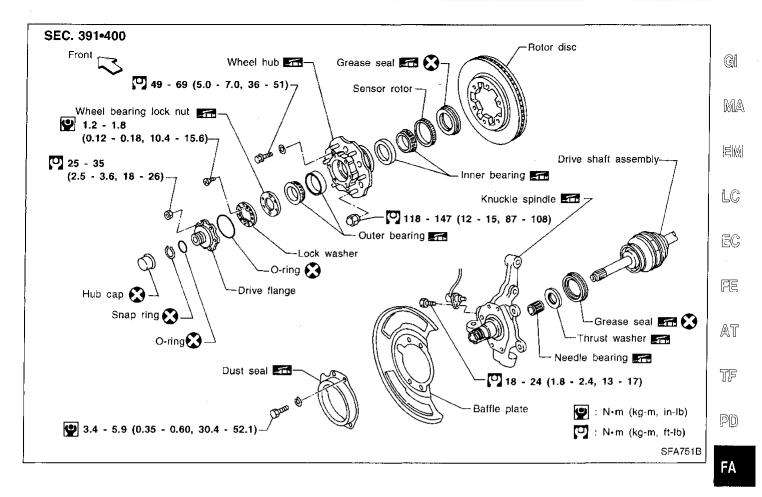
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#### **Drive Shaft**

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



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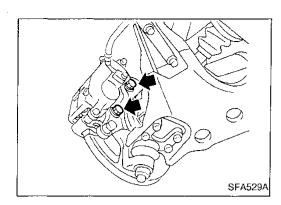
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#### Wheel Hub and Rotor Disc

#### REMOVAL

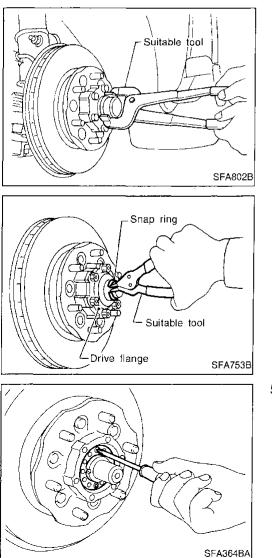
#### CAUTION:

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

1. Remove brake caliper assembly.

Brake hose need not be disconnected from brake caliper. In this case, suspend caliper assembly with wire so as not to stretch brake hose.

Be careful not to depress brake pedal, or piston will pop out. Make sure brake hose is not twisted.



2. Remove hub cap with suitable tool.

- 3. Remove snap ring with suitable tool.
- 4. Remove drive flange.

5. Remove lock washer.

FRONT AXLE	
Wheel Hub and Rotor Disc (Cont'd)	
6. Remove wheel bearing lock nut.	Ĝ
	MA
	EM
SFA754B	LC
7. Remove wheel hub and wheel bearing. Be careful not to drop outer bearing.	ĒĈ
INSTALLATION	
1. After installing wheel hub and wheel bearing, adjust wheel bearing preload.	sel and
Refer to PRELOAD ADJUSTMENT of Front Wheel Bearing ON-VEHICLE SERVICE (FA-5).	in <sub>AT</sub>
SFA832	ήβ
<ul> <li>Pack drive flange groove with grease, apply grease to O-ring (two places) and mating surface of drive flange, and instantion flange.</li> </ul>	ng all PD
3. Install snap ring.	FA
Groove Drive flange	RA
SFA755B	BA
<ul> <li>4. Install hub cap using a suitable tool.</li> <li>Do not reuse hub cap. When installing, replace it with a ne one.</li> </ul>	w <sup>ST</sup>
L X ESTIM	RS
	BJ
Suitable tool SFA759B	HA
DISASSEMBLY	ĒL
Brass bar     Brass bar	le JDX
FA858	

#### Wheel Hub and Rotor Disc (Cont'd) INSPECTION

Thoroughly clean wheel bearings and wheel hub.

#### Wheel bearing

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

#### Wheel hub

 Check wheel hub for crack by using a magnetic exploration or dyeing test.

#### ASSEMBLY

1. Install bearing outer race with Tool until it seats in hub.

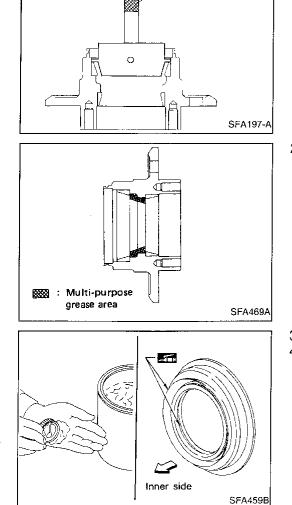
2. Pack multi-purpose grease into wheel hub.

- 3. Apply multi-purpose grease to each bearing cone.
- 4. Pack grease seal lip with multi-purpose grease, then install it into wheel hub with suitable drift.

#### **Knuckle Spindle**

#### REMOVAL

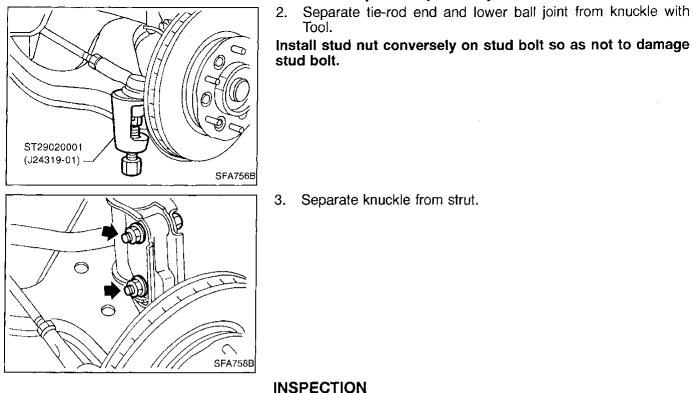
1. Remove drive shaft. Refer to FRONT AXLE — Drive Shaft (FA-14).



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#### **FRONT AXLE** Knuckle Spindle (Cont'd)

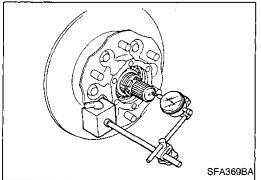


## Install stud nut conversely on stud bolt so as not to damage

_	SPECTION uckle spindle	PD
•	Check knuckle spindle for deformation, cracks or other dam- age by using a magnetic exploration or dyeing test.	FA
Nee •	edle bearing Check needle bearing for wear, scratches, pitting, flaking and burn marks.	RA
		8 <b>R</b>
<b>INS</b> 1.	TALLATION Install needle bearing into knuckle spindle.	ST
	te sure that needle bearing is facing in proper direction. by multi-purpose grease. Install knuckle with wheel hub.	RS
3.	Install tie-rod end and lower ball joint.	BT
		HA
4.	After installing knuckle spindle, adjust wheel bearing preload. Refer to PRELOAD ADJUSTMENT of Front Wheel Bearing in ON-VEHICLE SERVICE (FA-5).	<u>E</u>
	After installing drive shaft, check drive shaft axial end play. not reuse snap ring once it has been removed.	1DX

Refer to "Drive Shaft" of FRONT AXLE (FA-14).

Knuckle spindle PU ΠP Seal lip Needle bearing SFA962-A



**FA-13** 

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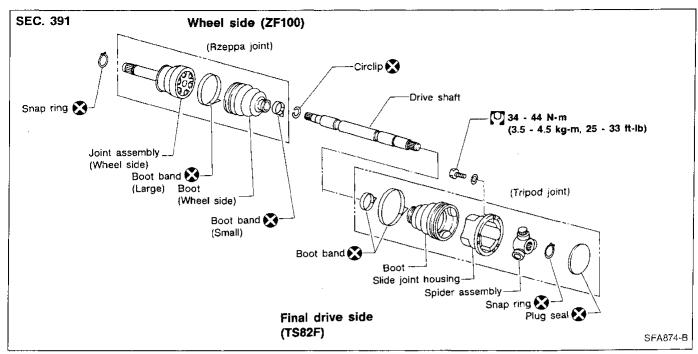
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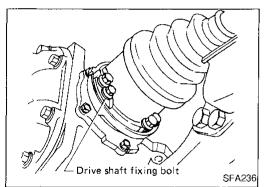
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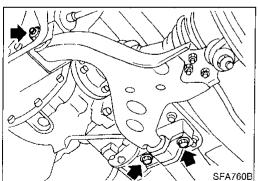


#### Drive Shaft



#### REMOVAL

- 1. Remove hub cap and snap ring. Refer to REMOVAL of Wheel Hub and Rotor Disc in FRONT AXLE (FA-10).
- 2. Remove bolts fixing drive shaft to final drive.
- 3. Remove transverse link fixing nut and bolts.

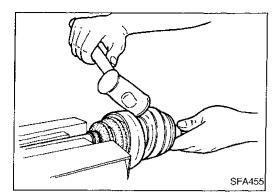


- SFA761B
- 4. Separate drive shaft from knuckle by lightly tapping it with a copper hammer.

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

	FRONT AXLE	
	Drive Shaft (Cont'd)	
Slide joint Plug seal housing	DISASSEMBLY	
	<ul> <li>Final drive side (TS82F)</li> <li>1. Remove plug seal from slide joint housing by lightly tapping around slide joint housing.</li> <li>2. Remove boot bands.</li> </ul>	
	2. Remove boot bands.	M. Ei
SFA880		LC
Matching marks	3. Move boot and slide joint housing toward wheel side, and put matching marks.	EÓ
		FE
		AT
SFA963		TF
	4. Remove snap ring.	PD
		FA
Snap ring		RA BR
SFA964	5. Detach spider assembly with press.	
		ST
		RS
		BT
SFA392		HA
	<ol> <li>Draw out boot.</li> <li>Cover drive shaft serration with tape so as not to damage the boot.</li> </ol>	EL
Таре	DOOL	JD)
SFA799		•

#### Drive Shaft (Cont'd)



#### Wheel side (ZF100)

#### CAUTION:

The joint on the wheel side cannot be disassembled.

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

Be careful not to damage threads on drive shaft.

• Remove boot bands.

#### 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 GÉNUINE GREASE or equivalent after every overhaul.

- Tape		
	F	/ SEA800

#### Final drive side (TS82F)

1. Install new small boot band, boot and side joint housing to drive shaft.

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

	FRONT AXLE	
	Drive Shaft (Cont'd)	
	<ul> <li>2. Install spider assembly securely, ensuring marks are properly aligned.</li> <li>Press-fit with spider assembly serration chamfer facing shaft.</li> <li>3. Install new snap ring.</li> </ul>	Ĝĺ
Suitable tool Chamfer		MA EM
	4. Pack with grease.	LC
	<ul> <li>Specified amount of grease: 95 - 105 g (3.35 - 3.70 oz)</li> <li>5. Make sure that boot is properly installed on the drive shaft groove. Set boot so that it does not swell and deform when its</li> </ul>	EC
	length is " $L_1$ ": 95 - 97 mm (3.74 - 3.82 in)	P <u>C</u> A 57
SFA460BA		AT TF
	<ol> <li>Lock new larger boot band securely with a suitable tool, then lock new smaller boot band.</li> <li>Install new plug seal to slide joint housing by lightly tapping it.</li> </ol>	PD
Boot band SFA443B	Apply sealant to mating surface of plug seal.	FA RA BR
	<ul><li>Wheel side (ZF100)</li><li>1. Install new small boot band and boot on drive shaft.</li></ul>	ST
	Cover drive shaft serration with tape so as not to damage boot during installation.	RS
Таре		BT
SFA800		HA
4	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.	<u>F</u> L
Wood SFA884		IDX

#### Drive Shaft (Cont'd)

- 3. Pack drive shaft with specified amount of grease. Specified amount of grease: 135 - 145 g (4.76 - 5.11 oz)
  - Make sure that boot is properly installed on the drive shaft groove. Set boot so that it does not swell and deform when its length is "L<sub>2</sub>".
    - Length "L2": 96 98 mm (3.78 3.86 in)
  - 5. Lock new larger boot band securely with a suitable tool.
  - 6. Lock new smaller boot band.

#### INSTALLATION

• Apply multi-purpose grease.

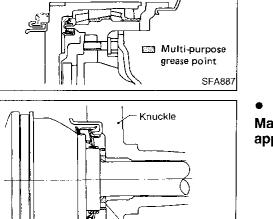
• Install thrust washer onto drive shaft.

Make sure that thrust washer is facing in proper direction, apply multi-purpose grease.

- When installing drive shaft, adjust drive shaft axial end play by selecting a suitable snap ring.
- (1) Temporarily install new snap ring on drive shaft in the same thickness as it was installed before removal.

- SFA847
  - (2) Set dial gauge on drive shaft end.
  - (3) Measure axial end play of drive shaft. Axial end play: 0.45 mm (0.0177 in) or less
  - (4) If axial end play is not within the specified limit, select another snap ring.

1.1 mm (0.043 in)	1.3 mm (0.051 in)
1.5 mm (0.059 in)	1.7 mm (0.067 in)
1.9 mm (0.075 in)	2.1 mm (0.083 in)
2.3 mm (0.091 in)	



Drive shaft

Thrust washer

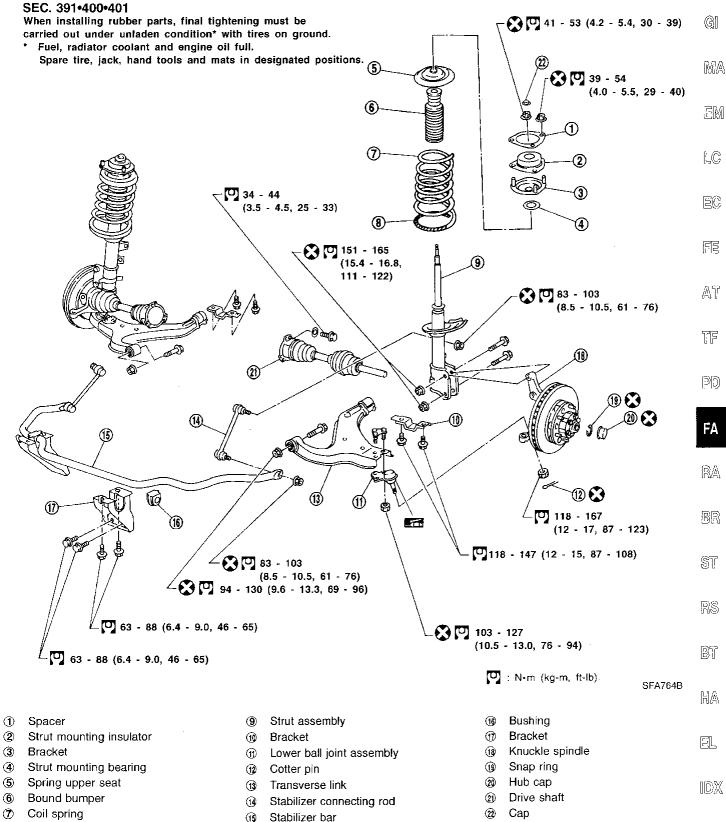
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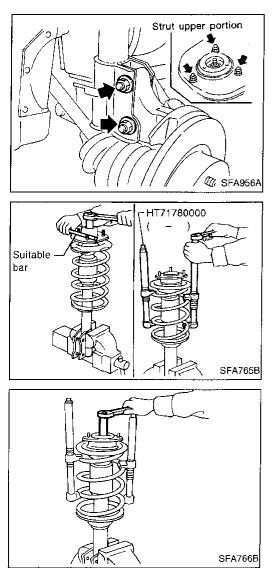
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Snap ring



- Ø Coil spring
- (8) (Polyurethane tube)

**FA-19** 



#### **Coil Spring and Strut Assembly**

REMOVAL

- Remove stabilizer connecting rod.
- Remove strut assembly fixing bolts and nuts (to hood-ledge). Do not remove piston rod lock nut on vehicle.

#### DISASSEMBLY

1. Set strut assembly on vise, then **loosen** piston rod lock nut. **WARNING**:

#### Do not remove piston rod lock nut at this time.

- 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 on welded or gland packing portion.
- Check piston rod for cracks, deformation or other damage.
- Replace if necessary.

#### Strut mounting insulator and rubber parts

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

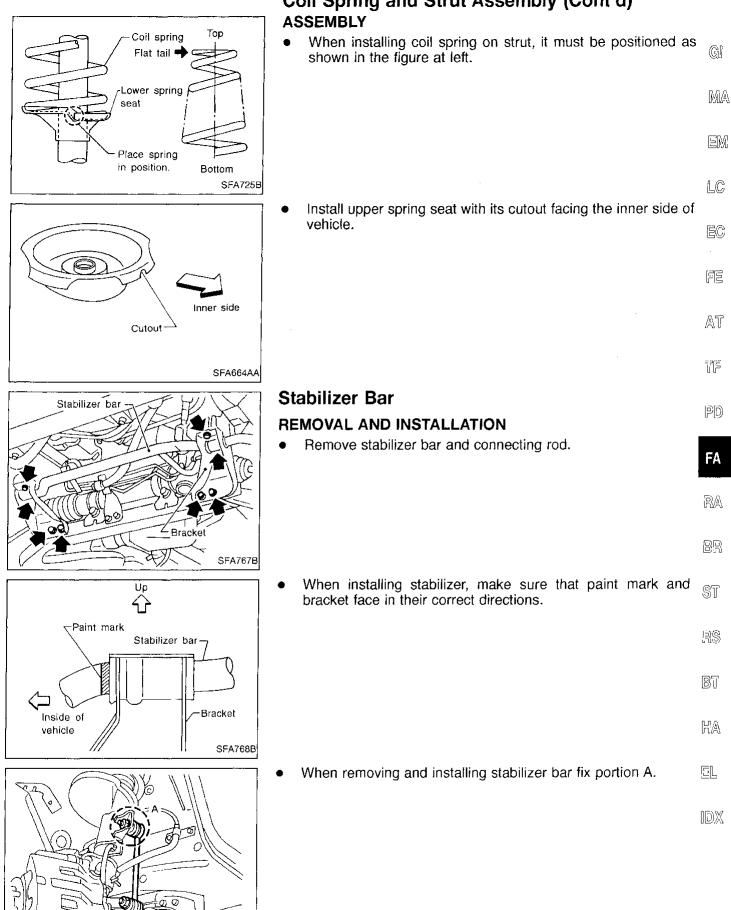
#### Strut mounting bearing

- Check thrust bearing parts for abnormal noise or excessive rattle in axial direction.
- Replace if necessary.

#### Coil spring

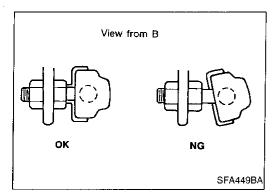
Check for cracks, deformation or other damage. Replace if necessary.

#### FRONT SUSPENSION Coil Spring and Strut Assembly (Cont'd)



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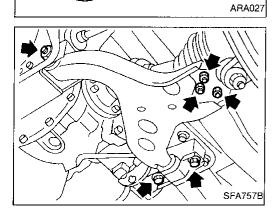
#### Stabilizer Bar (Cont'd)



Install stabilizer bar with ball joint socket properly placed.

#### INSPECTION

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



#### Transverse Link and Lower Ball Joint

#### **REMOVAL AND INSTALLATION**

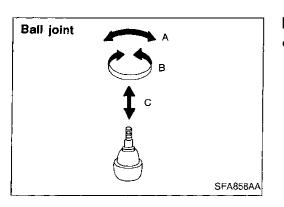
- Separate drive shaft from knuckle. Refer to "Drive Shaft" of FRONT AXLE (FA-14).
- Separate lower ball joint stud from knuckle.
- Remove lower ball joint assembly from transverse link.
- Remove transverse link.
- During installation, final tightening must be carried out at curb weight with tires on ground.
- After installation, check wheel alignment.
   Befer to "Front Wheel Alignment" of ON-VEHICLE
  - Refer to "Front Wheel Alignment" of ON-VEHICLE SERVICE (FA-6).

#### **INSPECTION**

#### **Transverse link**

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

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RONT SUSPENSION	
Transverse Link and Lower Ball Joint (Cont'd)	
Lower ball joint	
<ul> <li>Check ball joint for excessive play. Replace lower ball joint assembly if any of the following exists:</li> <li>Ball stud is worn.</li> </ul>	GI
<ul> <li>Joint is hard to swing.</li> </ul>	рад
<ul> <li>Play in axial direction is excessive.</li> </ul>	MA
Before checking, turn ball joint at least 10 revolutions so that	
ball joint is properly broken in.	EM
Swinging force "A":	E-076
(measuring point: cotter pin hole of ball stud)	
Refer to SDS (FA-25). Turning torque "B":	LC
Refer to SDS (FA-25).	
Vertical end play "C":	EĈ
Refer to SDS (FA-25).	
<ul> <li>Check dust cover for damage. Replace it and cover clamp if nocossan/</li> </ul>	
necessary.	
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#### SERVICE DATA AND SPECIFICATIONS (SDS)

#### **General Specifications**

Suspension type	Independent macpherson strut with coil spring
Strut type	Double-acting hydraulic
Stabilizer bar	Standard equipment

#### Inspection and Adjustment

#### WHEEL ALIGNMENT (Unladen\*1)

Applied model			245/70 R16 tire	
Camber		Minimum	-0°35′ (-0.58°)	
		Nominal	0°10′ (0.17°)	
		Degree minute	Maximum	0°55′ (0.92°)
(Decimal degree)		Left and right difference	45′ (0.75°) or less	
Caster		······································	Minimum	2°15′ (2.25°)
		Nominal	3°00′ (3.00°)	
		Degree minute	Maximum	3°45′ (3.75°)
		(Decimal degree)	Left and right difference	45' (0.75°) or less
Kingpin inclination			Minimum	13°35′ (13.58°)
		Degree minute	Nominal	14°20′ (14.33°)
		(Decimal degree)	Maximum	15°05′ (15.08°)
Total toe-in Distance (A – B) mm (in) Angle (left plus right) Degree minute (Decimal degree)		Minimum	1 (0.04)	
		Nominal	2 (0.08)	
		Maximum	3 (0.12)	
			Minimum	5′ (0.08°)
		Degree minute	Nominal	10′ (0.17°)
			Maximum	15′ (0.25°)
Wheel turning angle			Minimum	30°00′ (30.00°)
	Inside	<b>-</b>	Nominal	33°00′ (33.00°)
Fuli tum*2		Degree minute (Decimal degree)	Maximum	34°00′ (34.00°)
	Outside	Degree minute	Minimum	28°00′ (28.00°)
		Degree minute (Decimal degree)	Nominal	31°00′ (31.00°)

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

\*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.

#### SERVICE DATA AND SPECIFICATIONS (SDS)

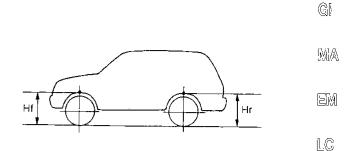
#### WHEEL BEARING

Wł	eel bearing lock nut		
	Tightening torque N·m (kg-m, ft-lb) Retightening torque after loosen- ing wheel bearing lock nut N·m (kg-m, in-lb)		78 - 98 (8 - 10, 58 - 72)
			0.5 - 1.5 (0.05 - 0.15, 4.3 - 13.0)
	Axial end play	mm (in)	0 (0)
	Starting force at wheel hub bolt N (kg, lb) Turning angle degree		A
			15° - 30°
_	Starting force at wheel hub bolt N (kg, lb)		В
Wh bolt	eel bearing preload at	wheel hub N (kg, lb)	
	B – A		7.06 - 20.99 (0.72 - 2.14, 1.59 - 4.72)

#### LOWER BALL JOINT

Swinging force "A" (Measuring point: cotter pin hole of ball stud) N (kg, lb)	7.8 - 76.5 (0.8 - 7.8, 1.8 - 17.2)
Turning torque "B" N·m (kg-cm, in-lb)	0.5 - 4.9 (5 - 50, 4.3 - 43.4)
Vertical end play "C" mm (in)	0 (0)

#### Inspection and Adjustment (Cont'd) WHEELARCH HEIGHT (Unladen\*)



		SFA746B	EC
Applied model		245/70 R16 tire (With over fender)	FL
Front (Hf)	mm (in)	815 (32.09)	<b>M</b> TP
Rear (Hr)	mm (in)	846 (33.31)	AT

\*: Fuel, radiator coolant and engine oil full.

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

#### WHEEL RUNOUT AVERAGE\*

Radiał runout limit	mm (in)	0.3 (0.012)	FA
Lateral runout limit	mm (in)	0.3 (0.012)	- RA

\*: Wheel runout average = (Outside runout value + Inside runout value) x 0.5

BR

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76

PD

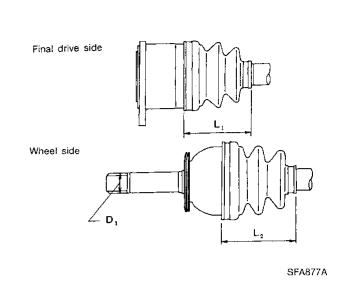
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#### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Inspection and Adjustment (Cont'd)

#### **DRIVE SHAFT**

Drive shaft joint type	e	
Final drive side	Ē	T\$82F
Wheet side		ZF100
Fixed joint axial e limit	end play mm (in)	1 (0.04)
Diameter	mm (in)	
Wheel side (D <sub>1</sub> )		29.0 (1.142)
Grease		
Quality		Nissan genuine grease or equivalent
Specified amount	of grease g (oz)	
Final drive sid	e	95 - 105 (3.35 - 3.70)
Wheel side		135 - 145 (4.76 - 5.11)
Drive shaft axial enc	l play mm (in)	0.45 (0.0177) or less
Boot length	mm (in)	
Final drive side (L	-1)	95 - 97 (3.74 - 3.82)
Wheel side (L <sub>2</sub> )		96 - 98 (3.78 - 3.86)



#### Drive shaft end snap ring

Thickness mm (in)	Part No.
1.1 (0.043)	39253-88G10
1.3 (0.051)	39253-88G11
1.5 (0.059)	39253-88G12
1.7 (0.067)	39253-88G13
1.9 (0.075)	39253-88G14
2.1 (0.083)	39253-88G15
2.3 (0.091)	39253-88G16