# FRONT AXLE & FRONT SUSPENSION

SECTION FA

EM

LC

EC

GI

# CONTENTS

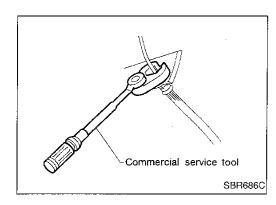
PRECAUTIONS AND PREPARATION	2
Precautions	2
Special Service Tools	2
Commercial Service Tools	3
FRONT AXLE AND FRONT SUSPENSION	4
ON-VEHICLE SERVICE	5
Front Axle and Front Suspension Parts	5
Front Wheel Bearing	6
Front Wheel Alignment	6
Drive Shaft	7
FRONT AXLE	
Wheel Hub and Knuckle	
Removal	
Installation	10
Disassembly	10
Inspection	11
Assembly	1 <b>1</b>
Drive Shaft	
Removal	13
Installation	
Components	
GA16DE model	
SR20DE model	16
Disassembly	
Transaxle side (TS79C, TS83 type)	
Transaxle side (DS83 type)	
Wheel side	
Support bearing	
Inspection	
Assembly	
Wheel side	
Transaxle side (TS79C, TS83 type)	
Transaxle side (DS83 type)	
Support bearing	
FRONT SUSPENSION	
Coil Spring and Strut Assembly	25

Removal And Installation	25	들로
Disassembly	25	0 _
Inspection	25	
Assembly	26	Cl
Stabilizer Bar	26	
Removal And Installation	26	D/J=7
Inspection		MT
Transverse Link and Lower Ball Joint	27	
Removal And Installation	27	AT
Inspection	28	5.55
SERVICE DATA AND SPECIFICATIONS (SDS)	29	
General Specifications	29	FA
Suspension	29	
Coil Spring		RA
Strut		IN/A
Stabilizer Bar		
Drive Shaft		BR
Wheelarch Height		
Inspection and Adjustment		
Wheel Alignment		ST
Wheel Bearing		
Lower Ball Joint	31	-06
Wheel Runout	31	RS
		81

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El

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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.
- After installing removed suspension parts, 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**

\*: Special tool or commercial equivalent

Tool number (Kent-Moore No.) Tool name	Description	
HT72520000* (J25730-A) Ball joint remover	PATP	Removing tie-rod outer end and lower ball joint
	NT146	
HT71780000* ( — ) Spring compressor	A A A A A A A A A A A A A A A A A A A	Removing and installing coil spring
	NT144	
ST35652000* ( — ) Strut attachment		Fixing strut assembly
	NT145	
KV38106700* (J34296) KV38106800* (J34297)		Installing drive shaft
Differential side oil seal protector	NT147	LH: KV38106700 RH: KV38106800

# PRECAUTIONS AND PREPARATION

#### Tool name Description G! Removing wheel hub Front wheel hub drift MA ab EM a: 42 mm (1.65 in) dia. b: 33 mm (1.30 ln) dia. NT065 Removing and installing wheel bearing Front wheel bearing lC outer race drift outer race EC a: 76 mm (2.99 in) dia. b: 72 mm (2.83 in) dia. NT115 FE Grease seal drift Installing outer grease seal CL a: 81 mm (3.19 in) dia. b: 76 mm (2.99 in) dia. NT115 MT Measuring wheel alignment Attachment Wheel alignment AT a: Screw M22 x 1.5 b: 35 (1.38) dia. c: 65 (2.56) dia. d: 56 (2.20) e: 12 (0.47) FA NT148 Unit: mm (in) RA Removing and installing brake piping 1 Flare nut crows foot (2) Torque wrench BR 2 NT360 ST a: 10 mm (0.39 in)

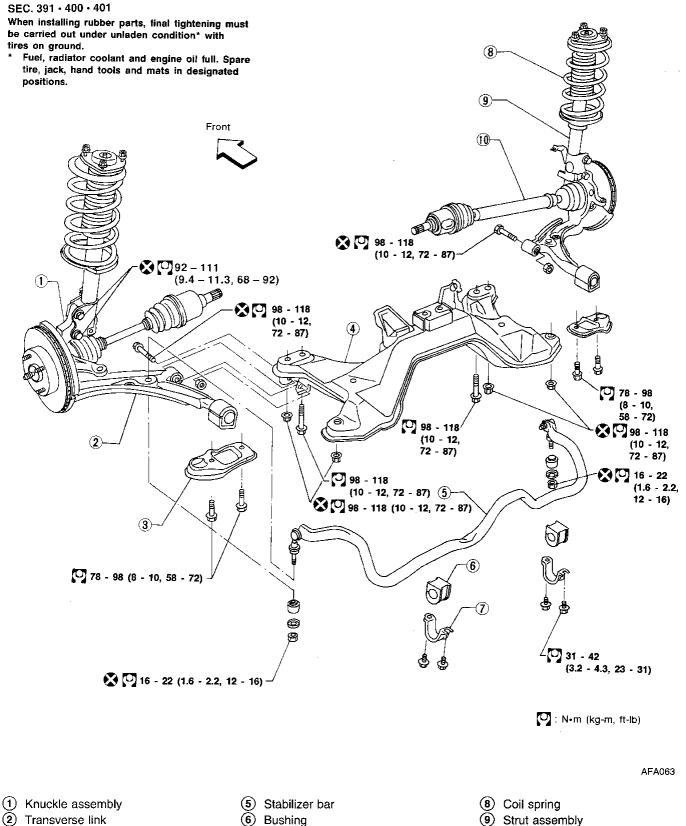
# **Commercial Service Tools**

RS

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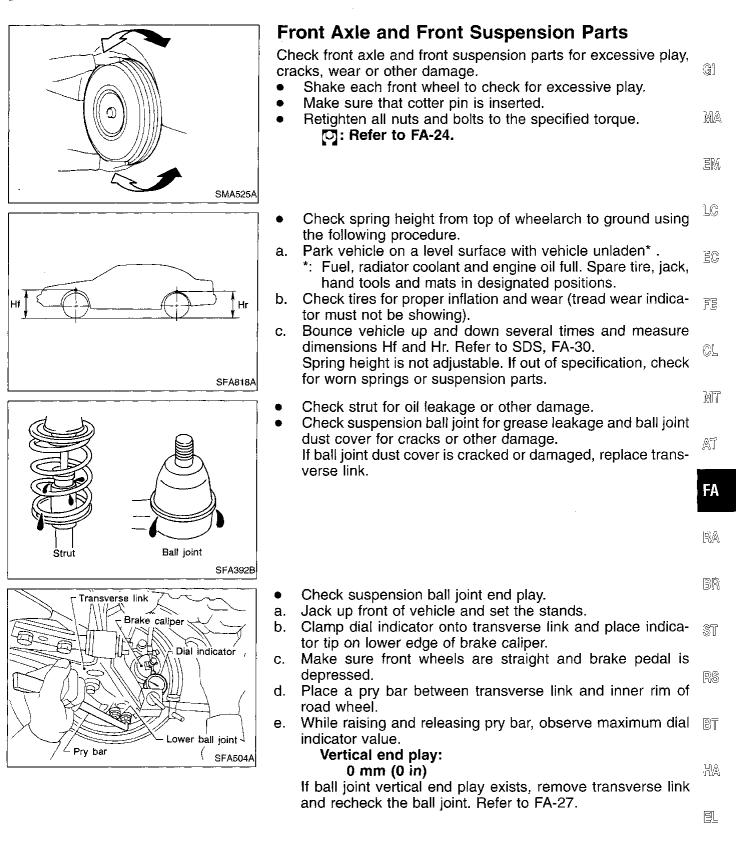
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- 7 Bracket
- 3 Compression rod clamp (4) Front suspension member

FA-4

- (9) Strut assembly
- 10 Drive shaft

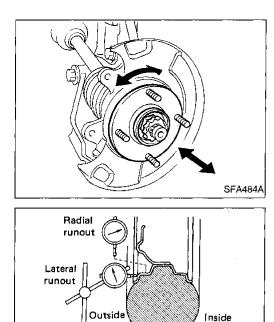


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# **Front Wheel Bearing**

- Check that wheel bearings operate smoothly.
- 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-8.

# **Front Wheel Alignment**

Before checking front wheel alignment, be sure to make a preliminary inspection with vehicle unladen\*.

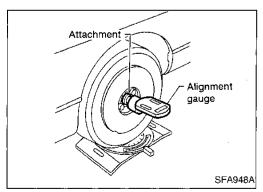
\*: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

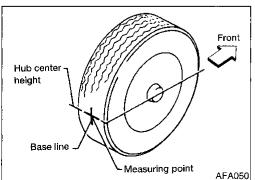
#### PRELIMINARY INSPECTION

- 1. Check tires for wear and improper inflation.
- 2. Check wheel runout.

#### Wheel runout: Refer to SDS, FA-31.

- 3. Check front wheel bearings for looseness.
- 4. Check front suspension for looseness.
- 5. Check steering linkage for looseness.
- 6. Check that front struts work properly by using the standard bounce test.
- 7. Check vehicle posture (unladen).





## CAMBER, CASTER AND KINGPIN INCLINATION

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

1. 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-31.

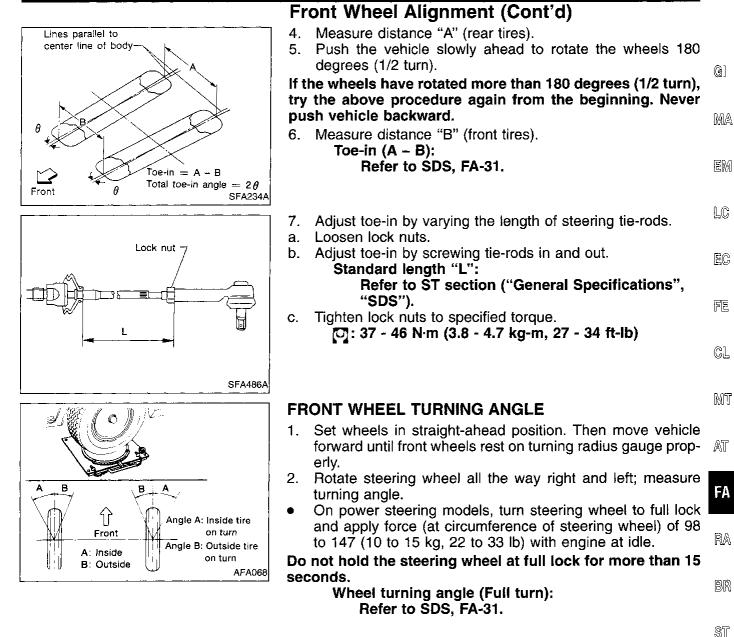
2. If camber, caster and kingpin inclination are not within specification, inspect front suspension parts. Replace any damaged or worn out parts.

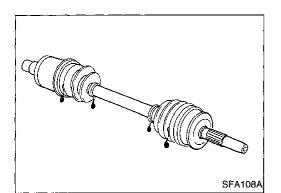
#### TOE-IN

Measure toe-in using the following procedure. WARNING:

- Always perform the following procedure on a flat surface.
- Make sure that no person is in front of the vehicle before pushing it.
- 1. Bounce front of vehicle up and down to stabilize the posture.
- 2. Push the vehicle straight ahead about 5 m (16 ft).
- 3. Put a mark on base line of tread (rear side) of both tires at the same height as hub center. These are measuring points.

# **ON-VEHICLE SERVICE**





# Drive Shaft Check for grease leakage or other damage.

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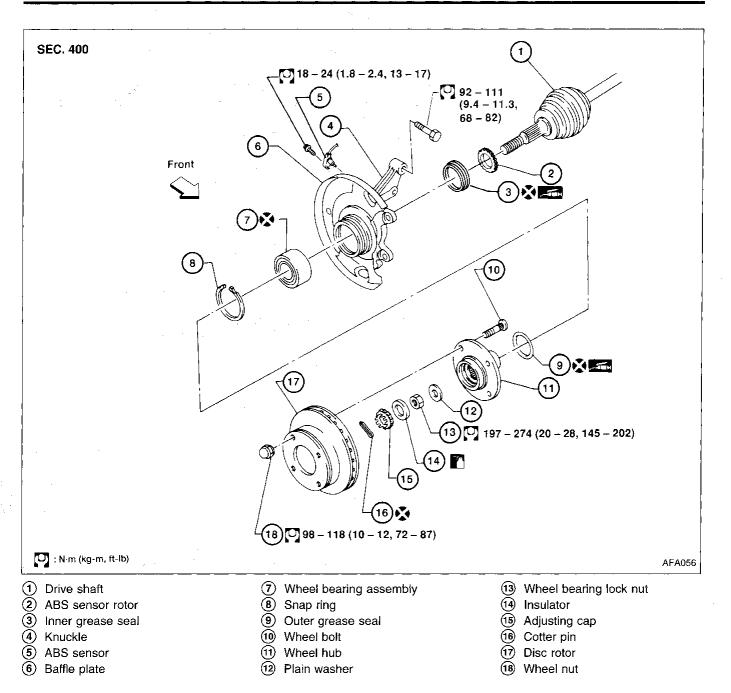
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**FA-7** 



#### Wheel Hub and Knuckle

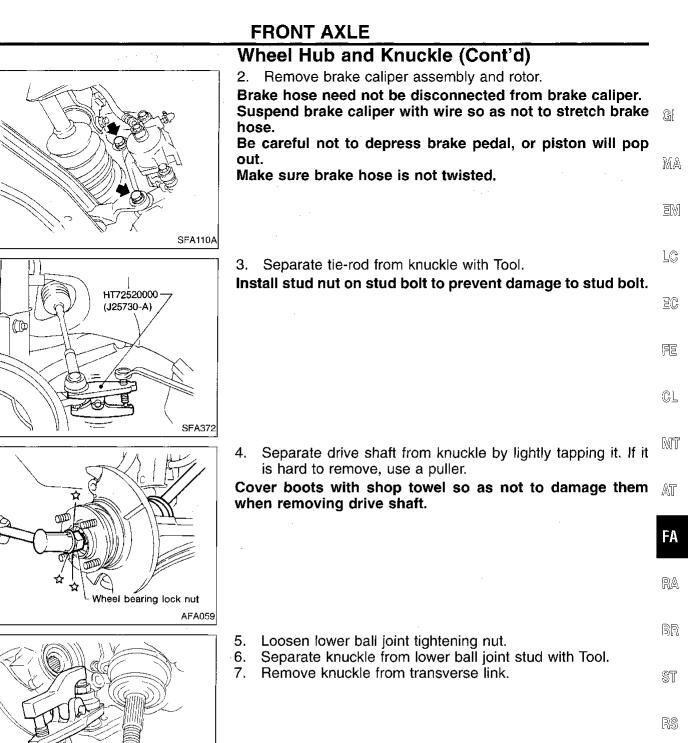
#### REMOVAL

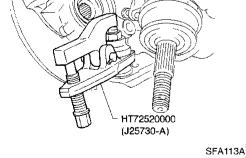
#### CAUTION:

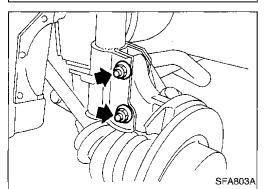
Before removing front axle assembly, disconnect ABS wheel sensor from assembly and move it from front axle assembly area.

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

1. Remove wheel bearing lock nut.







8. Remove strut lower mounting bolts.

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# Wheel Hub and Knuckle (Cont'd) INSTALLATION

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

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

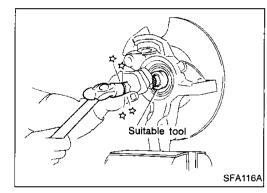
[0]: 92 - 111 N·m

(9 - 11 kg-m, 68 - 82 ft-lb)

Apply oil to threaded portion of drive shaft and to both sides of plain washer.

- 2. Tighten wheel bearing lock nut.
  - [O]: 197 274 N·m
    - (20 28 kg-m, 145 202 ft-lb)
- 3. Check wheel bearing axial end play. Axial end play:

0.05 mm (0.0020 in) or less



#### DISASSEMBLY

CAUTION:

SFA441B

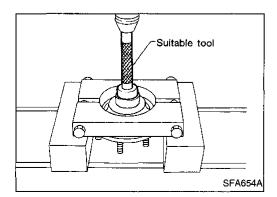
When removing wheel hub or wheel bearing from knuckle, replace wheel bearing assembly (outer race, inner races and grease seals) with a new one.

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

- Growling noise is emitted from wheel bearing during operation.
- Wheel bearing drags or turns roughly. This occurs when turning hub by hand after bearing lock nut is tightened to specified torque.

#### Wheel hub

Drive out hub with inner race (outside) from knuckle with a suitable tool.



#### Wheel bearing

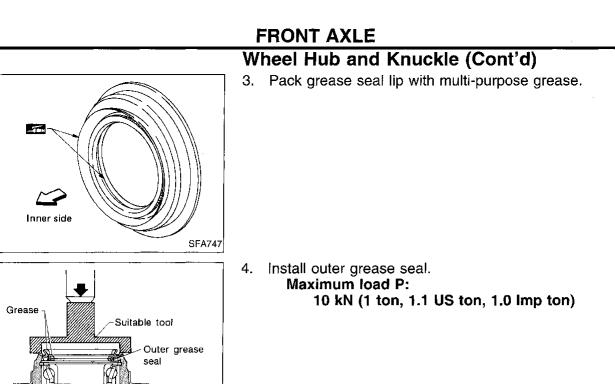
When replacing wheel bearing, replace wheel bearing assembly (including inner and outer races).

1. Remove bearing inner race (outside), then remove outer grease seal.

FA-10

х.	FRONT AXLE	
	Wheel Hub and Knuckle (Cont'd)	
G DO SFA950A	2. Remove inner and outer grease seals from knuckle.	gi Ma Em
	3. Remove snap ring.	LG
Suitable tool		ec Fe
		CL
SFA685		R/157
	4. Press out bearing outer race.	MT
Suitable tool		AT
		FA
		RA
SFA496A		BR
	INSPECTION	ST
	Wheel hub and knuckle	
	Check wheel hub and knuckle for cracks by using a magnetic exploration or dyeing test.	RS
	Snap ring	BT
	Check snap ring for wear or cracks. Replace if necessary.	
	ASSEMBLY	HA
Suitable tool	<ol> <li>Press new wheel bearing assembly into knuckle. Maximum load P: 29 kN (3 ton, 3.3 US ton, 3.0 Imp ton) CAUTION:</li> </ol>	Ēl
assembly Knuckle	<ul> <li>Do not press inner race of wheel bearing assembly.</li> <li>Do not apply oil or grease to mating surfaces of wheel bearing outer race and knuckle.</li> </ul>	IDX
Columnation Suitable tool	2. Install snap ring into groove of knuckle.	

# FA-11



 Install inner grease seal.
 Maximum load P: 10 kN (1 ton, 1.1 US ton, 1.0 Imp ton)

SFA220BA

Suitable tool

grease seal

Suitable tool

SFA556B

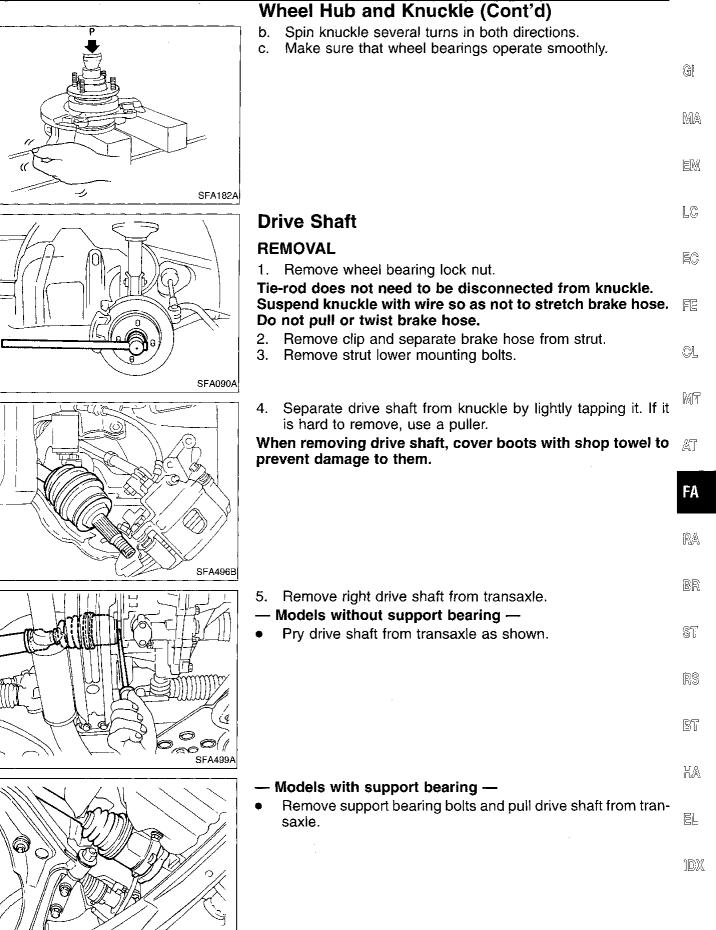
AFA067

Inner

Grease

 Press wheel hub into knuckle.
 Maximum load P: 29 kN (3 ton, 3.3 US ton, 3.0 Imp ton)
 Be careful not to damage grease seal.

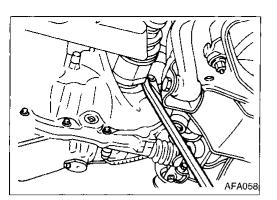
- 7. Check bearing operation.
  - Add load P with press. Load P:
    - 34.3 49.0 kN
    - (3.5 5.0 ton, 3.9 5.5 US ton, 3.44 4.92 imp ton)



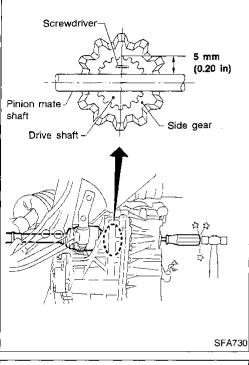
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# Drive Shaft (Cont'd)

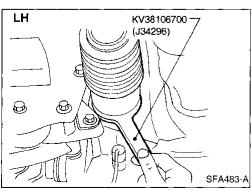
- 6. Remove left drive shaft from transaxle.
- --- For M/T models ---
- Pry drive shaft from transaxle as shown.



A/T model



# RH KV38106800 (J34297) SFA482-A



#### - For A/T models -

 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

- Drive a new oil seal to transaxle. Refer to MT or AT section ("Differential Side Oil Seal Replacement", "ON-VEHICLE SERVICE").
- 2. Set Tool along the inner circumference of oil seal.
- 3. Insert drive shaft into transaxle. Be sure to properly align the serrations and then withdraw Tool.
- 4. Push drive shaft, then press-fit circular clip on the drive shaft into circular clip groove of side gear.
- 5. After its insertion, try to pull the flange out of the slide joint by hand. If it pulls out, the circular clip is not properly meshed with the side gear.

#### Wheel side

- 1. Install drive shaft into knuckle.
- 2. Tighten wheel bearing lock nut. Refer to FA-8.

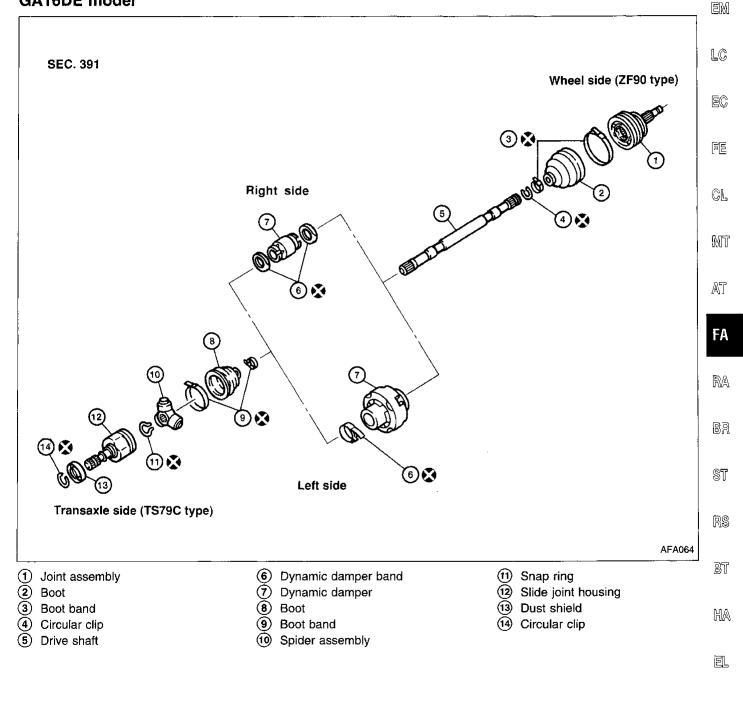
# FA-14

# Drive Shaft (Cont'd) COMPONENTS

CAUTION:

- Circular clips should be properly meshed with differen tial side gear (transaxle side) and with joint assembly (wheel side). Make sure they will not come out.
- Be careful not to damage boots. Use suitable protector MA or cloth during removal and installation.

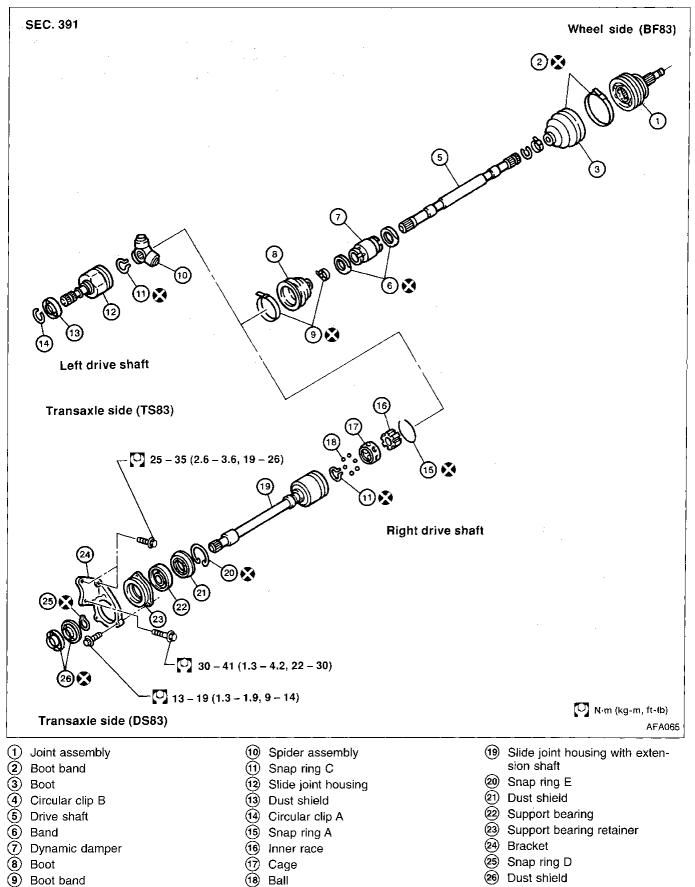




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# FRONT AXLE Drive Shaft (Cont'd)

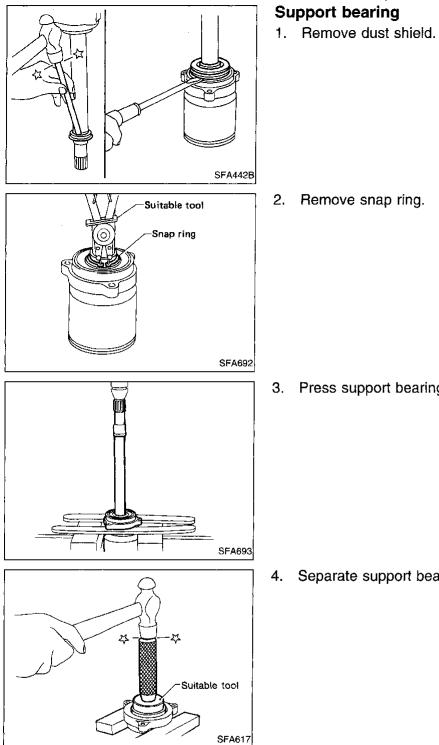
#### SR20DE model



	FRONT AXLE	
	Drive Shaft (Cont'd)	
Matching marks	DISASSEMBLY	
	Transaxle side (TS79C, TS83 type) 1. Remove boot bands.	G]
	<ol> <li>Put matching marks on slide joint housing and drive shaft before separating joint assembly.</li> <li>Put matching marks on spider assembly and drive shaft.</li> </ol>	MA
		ĪM
SFA963		
	<ol><li>Remove snap ring, then remove spider assembly.</li></ol>	LC
	<b>Do not disassemble spider assembly.</b> 5. Draw out boot.	EC
	Cover drive shaft serration with tape to prevent damage to the boot.	F
Snap ring		Cl
SFA612	Transayla sida (DE92 tuna)	MT
	<ol> <li>Transaxle side (DS83 type)</li> <li>Remove boot bands.</li> <li>Put matching marks on slide joint housing and inner race, before separating joint assembly.</li> </ol>	AT
	<ol> <li>Pry off snap ring "A" with a screwdriver, and pull out slide joint housing.</li> </ol>	FA
SFA476		RA
	4. Put matching marks on inner race and drive shaft.	BR
	<ol> <li>Remove snap ring "C", then remove ball cage, inner race and balls as a unit.</li> <li>Draw out boot.</li> </ol>	ST
	Cover drive shaft serrations with tape so as not to damage the boot.	RS
		BŢ
SFA514A		HA
-Suitable tool	Wheel side CAUTION:	
(Sliding hammer)	<ul><li>The joint on the wheel side cannot be disassembled.</li><li>Before separating joint assembly, put matching marks on</li></ul>	<u>i</u>
Wheel bearing locknut	<ul> <li>drive shaft and joint assembly.</li> <li>2. Separate joint assembly with a suitable tool.</li> <li>Be careful not to damage threads on drive shaft.</li> <li>3. Remove boot bands.</li> </ul>	1DX
AFA060		

FA-17





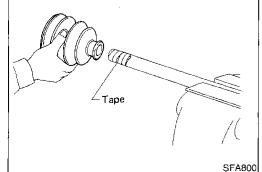
2. Remove snap ring.

3. Press support bearing assembly off of drive shaft.

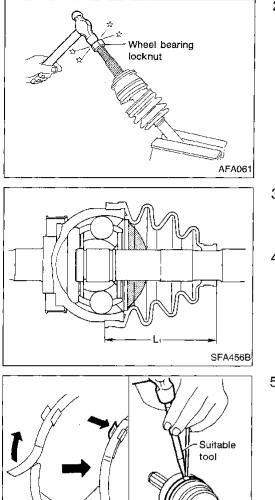
4. Separate support bearing from retainer.

#### Drive Shaft (Cont'd) INSPECTION

Thoroughly clean all parts in cleaning solvent, and dry with compressed air. Check parts for evidence of deformation or Gſ other damage. **Drive shaft** MA Replace drive shaft if it is twisted or cracked. EM Boot Check boot for fatigue, cracks, or wear. Replace boot with new boot bands. LC Joint assembly (Transaxle side) EĊ Check spider assembly for needle bearing and washer damage. Replace if necessary. (TS79C, TS83 type) Check roller surfaces for scratches, wear or other damage. Replace if necessary. (TS79C, TS83 type) RE Replace any parts of double offset joint which show signs of scorching, rust, wear or excessive play. (DS83 type) GL Check serration for deformation. Replace if necessary. Check slide joint housing for any damage. Replace if necessary. MT Joint assembly (Wheel side) Replace joint assembly if it is deformed or damaged. AT Support bearing FA Make sure wheel bearing rolls freely and is free from noise, cracks, pitting or wear. RA Support bearing bracket Check support bearing bracket for cracks with a magnetic exploration or dyeing test. BR ASSEMBLY ST After drive shaft has been assembled, ensure that it moves smoothly over its entire range without binding. Use NISSAN GENUINE GREASE or equivalent after RS every overhaul. 87 HA Wheel side Install boot and new small boot band on drive shaft. EL Cover drive shaft serration with tape so as not to damage boot during installation. [D]X



# Drive Shaft (Cont'd)



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

- 3. Pack drive shaft with specified amount of grease. **Specified amount of grease:** 7500 115 7 (4.05 4.11 cm)
  - ZF90 115 125 g (4.06 4.41 oz) BF83 105 - 125 g (3.70 - 4.41 oz)
- 4. 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 " $L_1$ ".

Length "L<sub>1</sub>":

ZF90 96 - 98 mm (3.78 - 3.86 in) BF83 95 mm (3.74 in)

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

#### Dynamic damper

- 1. Use a new damper band when reinstalling.
- 2. Install dynamic damper from stationary-joint side while holding it securely:

#### Length:

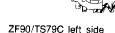
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Unit:	mm	(in)
		····/

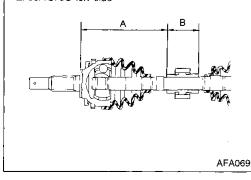
					<u>.</u>	
	ZF90/	TS79C	BF83/TS	583, DS8	3	
BU		LH	RH	LH		
RH	ĻſI	nn	A/T	M/T		
"A"	432 - 442	175.3 - 185.3	169 - 175	154.8	- 100.8	
	(17.01 - 17.40)	(6.90 - 7.30)	(6.65 - 6.89)	(6.09 -	- 6.33)	
"B"	66	58	70	50	70	
U	(2.60)	(2.28)	(2.76)	(1.97)	(2.76)	

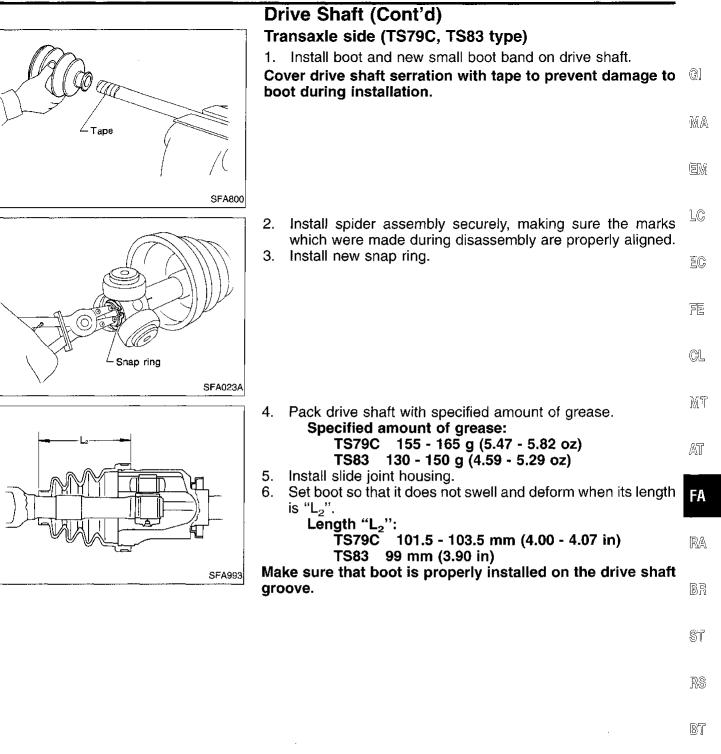
BF83/DS83 (right side) & ZF90/TS79C right side

Boot band



BF83/TS83 (left side)

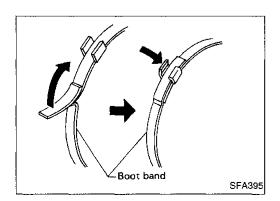




Lock new larger and smaller boot bands securely with a suitable tool.

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#### Drive Shaft (Cont'd) Transaxle side (DS83 type)

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

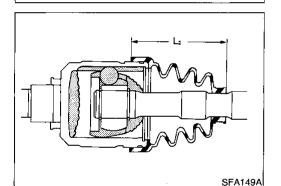
Cover drive shaft serration with tape to prevent damage boot during installation.

SFA514A

SFA800

∠ Tape

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

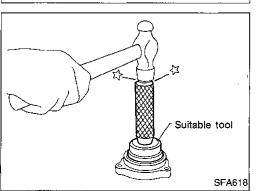


- Pack drive shaft with specified amount of grease.
   Specified amount of grease: 115 - 135 g (4.06 - 4.76 oz)
- 5. Install slide joint housing, then install new snap ring "A".
- Make sure that boot is properly installed on the drive shaft groove.

Set boot so that it does not swell and deform when its length is " $L_2$ ".

Length "L<sub>2</sub>": 98 mm (3.86 in)

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



Boot band

#### Support bearing

SFA395

1. Install bearing into retainer.

	FRONT AXLE
	Drive Shaft (Cont'd)
SFA694	2. Press drive shaft into bearing.
Transaxle side SFA444B	<ol> <li>Install snap ring.</li> <li>Install new dust shield.</li> </ol>

MT AT

GI

MA

EM

LC

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ST

RS

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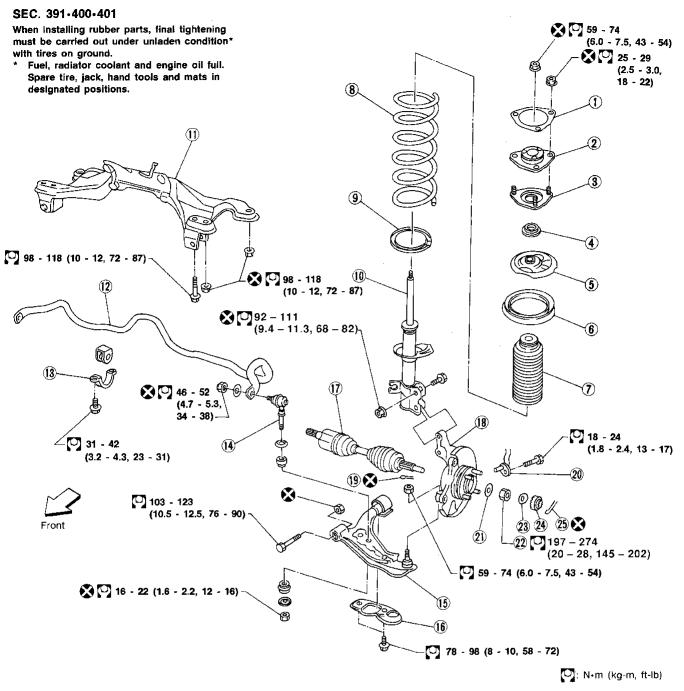
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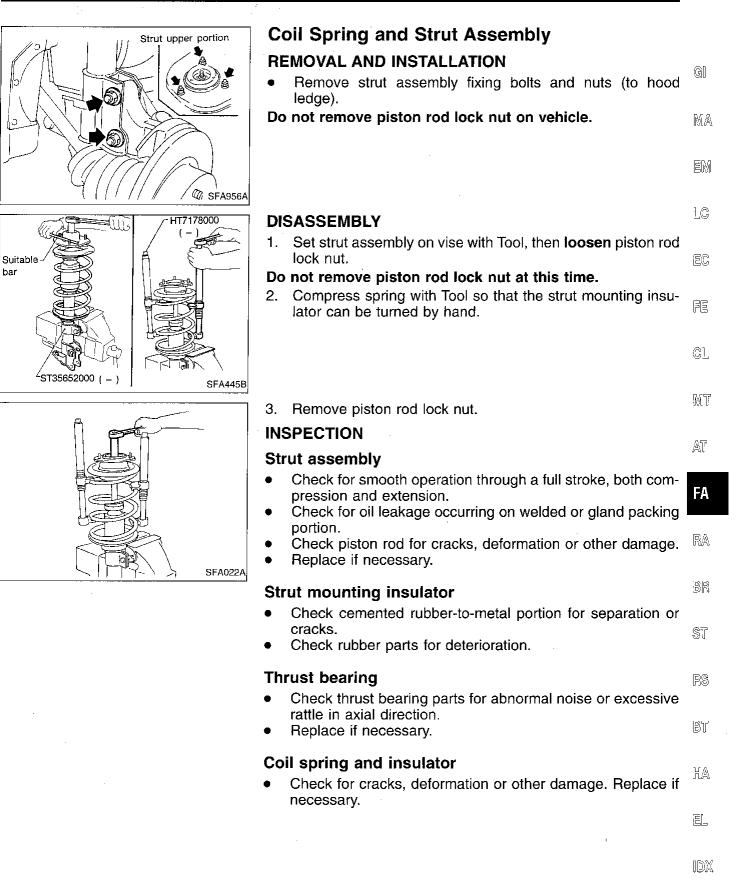


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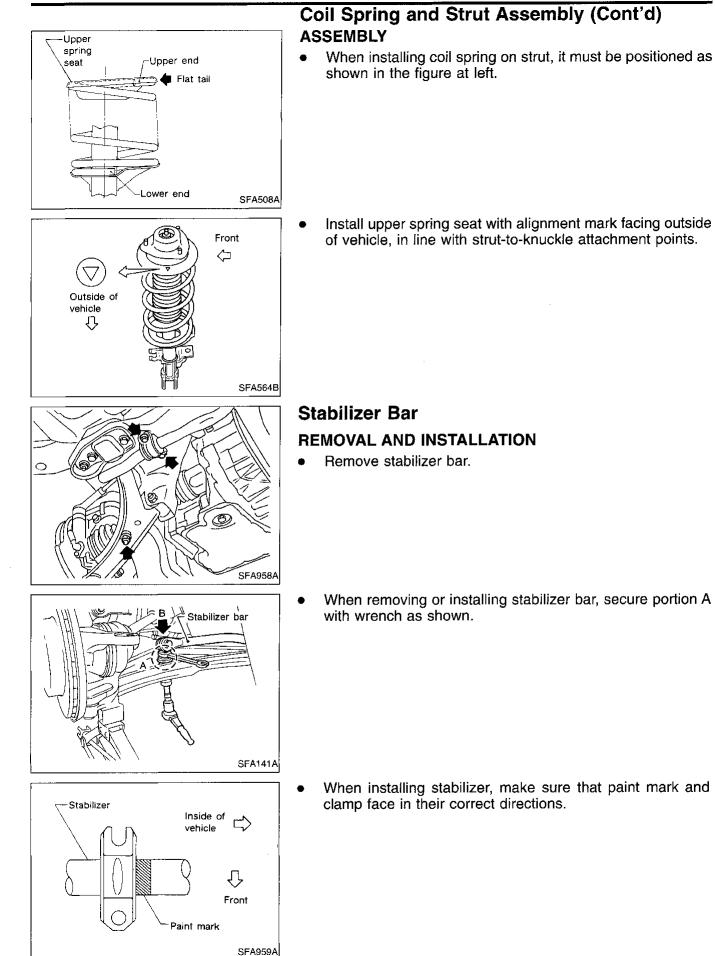
- (1) Spacer
- 2 Strut mounting insulator
- ③ Strut mounting insulator bracket
- 4 Thrust bearing
- (5) Upper spring seat
- (6) Upper spring rubber seat
- 7 Bumper rubber
- (8) Coil spring
- (9) Lower spring rubber seat

- 10 Strut assembly
- (1) Suspension member
- (12) Stabilizer bar
- (13) Stabilizer clamp
- (14) Connecting rod
- 15 Transverse link
- (16) Compression rod clamp
- 17 Drive shaft
- (18) Knuckle

- (19) Cotter pin
- (20) ABS sensor
- 21 Plain washer
- 2 Wheel bearing lock nut
- 23 Insulator
- 24 Adjusting cap
- 25 Cotter pin

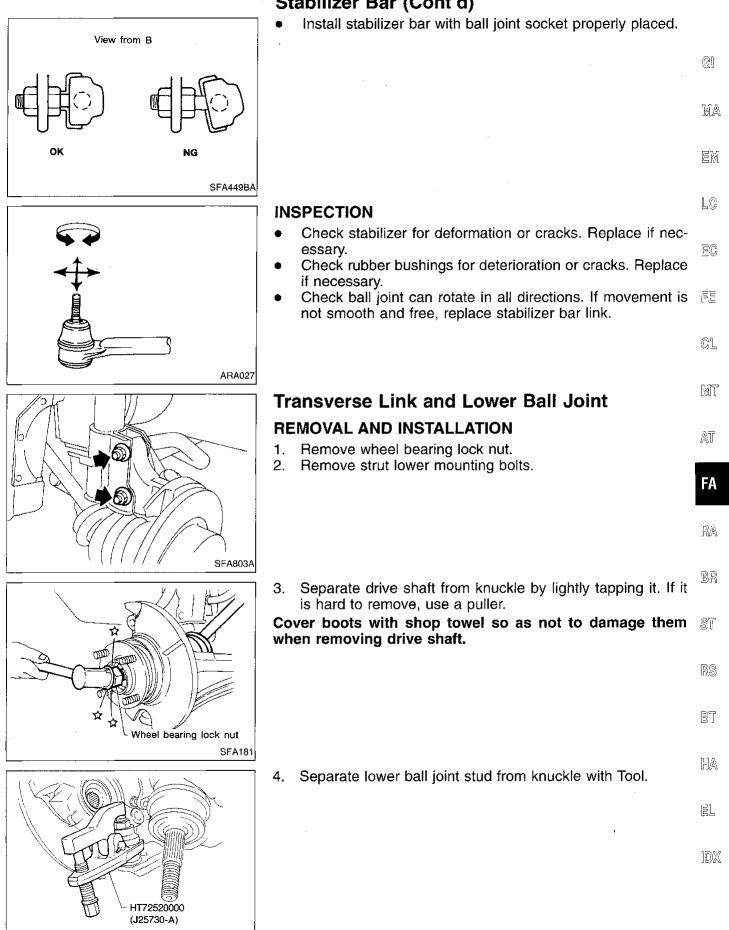


FRONT SUSPENSION



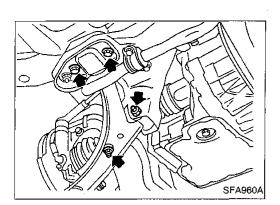
# FRONT SUSPENSION

#### Stabilizer Bar (Cont'd)



SFA113A

# FRONT SUSPENSION



#### Transverse Link and Lower Ball Joint (Cont'd)

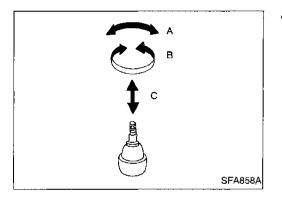
- 5. Remove bolts and nuts as shown at left.
- 6. During installation, final tightening must be carried out at curb weight with tires on the ground.

#### O: Refer to FA-24.

7. 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 ball joint for excessive play. Replace transverse link assembly if any of the following exists:
  - Ball stud is worn.
  - Joint is hard to swing.
  - Play in axial direction is excessive.

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) 8.2 - 57.3 N (0.8 - 5.9 kg, 1.8 - 12.9 lb)

Turning torque "B":

0.5 - 3.4 N·m (5 - 35 kg-cm, 4.3 - 30.4 in-lb) Vertical end play "C":

- 0 mm (0 in)
- Check dust cover for damage. Replace it and cover clamp if necessary.

# **General Specifications**

#### **SUSPENSION**

Suspension type

Strut type independent suspension

#### **COIL SPRING**

			4-door			2-door				E	
			GA16DE GA16DE SR20DE		GA16DE			GA16DE		20DE	ر. <u>ت</u> ا ،
Applied model	i	E·XE·GLE		G	GXE Base SE*		SE* SE-R				
	i	M/T	A/T	М/Т	A/T	M/T	A/T	M/T	A/T	LC	
Wire diameter	mm in	12.0 (0.472)	12.1 (0.476)	12.0 (0.472)	12.3 (0.484)	12.0 (0.472)	12.1 (0.476)	12.3 (0.484)	12.4 (0.488)	E	
Coil outer diame	ter mm (in)	142 (5.59)	142.2 (5.60)	142 (5.59)	142.6 (5.61)	142 (5.59)	142.2 (5.60)	142.6 (5.61)	142.8 (5.62)		
Free length	mm (in)	370.5 (14.59)	380 (14.96)	370.5 (14.59)	390 (15.35)	370.5 (14.59)	380 (14.96)	390 (15.35)	400 (15.75)		
Identification colo	or	White x 2	Yellow x 2	White x 2	Pink x 2	White x 2	Yellow x 2	Pink x 2	Light green x 2	Cl	

\*Canada SE models, coll spring specification for M/T same as A/T.

#### STRUT

Strut type	Double-acting hydraulic
Piston rod mm (in)	
Rod diameter	20 (0.79)

#### **STABILIZER BAR**

Applied model		2-door		
		GA16DE SE	SR20DE SE-R	
		Optional with 14" tire	Standard	
Stabilizer diameter	mm (in)	25.4 (1.000)		
Identification color		Orange		

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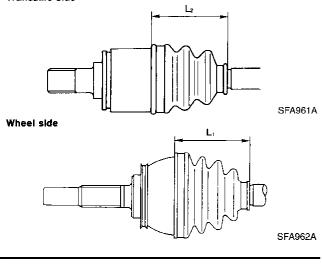
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# SERVICE DATA AND SPECIFICATIONS (SDS)

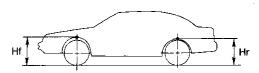
#### **DRIVE SHAFT**

Applied model	GA16DE	SR20DE	
Applied model	GATODE	RH	LH
Joint type			
Transaxle side	TS79C	DS83	TS83
Wheel side	ZF90	BF	83
Applied grease		•	
Quality	Nissan gen	iuine grease o	r equivalent
Capacity g (oz)			
Transaxle side	155 - 165 (5.47 - 5.82)	115 - 135 (4.06 - 4.76)	130 - 150 (4.59 - 5.29)
Wheel side	115 - 125 (4.06 - 4.41)	105 - 125 ) (3.10 - 4.41)	
Boot length mm (in)			
Transaxle side "L <sub>2</sub> "	101.5 - 103.5 (4.00 - 4.07)	98 (3.86)	99 (3.90)
Wheel side "L <sub>1</sub> "	96 - 98 (3.78 - 3.86)	95 (3.74)	

#### Transaxle side



# General Specifications WHEELARCH HEIGHT (Unladen\*)



SFA818A

Applied model	155SR13	175/70R13	175/65/ <b>R</b> 14	195/55R15
Front (Hf) mm (in)	659 (25.94)		666 (26.22)	669 (26.34)
Rear (Hr) mm (in)	640 (25.20)	642 (25.28)	648 (25.51)	650 (25.59)

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

# **Inspection and Adjustment**

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

10′	
<u></u>	
0°40′ - 2°10′	
14°00′ - 15°30′	
0 - 4 (0 - 0.16)	
0' - 24'	
er steering el	
4° - 38°	
31°	

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

\*2: On power steering models, turn steering wheel to full lock and apply force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine at idle.

#### WHEEL BEARING

Applied model		All
Axial end play	mm (in)	Less than 0.05 (0.0020)
Lock nut tightening torque N-m (kg-m, ft-lb)		197 - 274 (20 - 28, 145 - 202)
Preload	N·m (kg-cm, in-lb)	1.4 (14.2, 12.3)
At hub bolt	N (kg, lb)	27.8 (2.8, 6.3)

#### LOWER BALL JOINT

Swinging force "A" N (kg, lb)		Gi
At cotter pin hole	8.2 - 57.3 (0.8 - 5.9, 1.8 - 12.9)	MA
Turning torque "B" N·m (kg-cm, in-lb)	0.5 - 3.4 (5 - 35, 4.3 - 30.4)	1-20 1
Vertical end play "C" mm (in)	0 (0)	EN

#### WHEEL RUNOUT

		Unit: mm (in)	ēA
Wheel type	Aluminum	Steel wheel	EC
Maximum radial runout limit	0.3 (0.012)	0.5 (0.020)	ţ
Maximum lateral runout limit	0.3 (0.012)	0.8 (0.031)	<b>A</b> 1
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