FRONT AXLE & FRONT SUSPENSION

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CONTENTS

PRECAUTIONS AND PREPARATION	2
Precautions	
Special Service Tools	
Commercial Service Tools	
FRONT SUSPENSION SYSTEM	
ON-VEHICLE SERVICE	
Front Axle and Front Suspension Parts	
Front Wheel Bearing	
Front Wheel Alignment	
Drive Shaft	

FRONT AXLE	8
Wheel Hub and Knuckle	8
Drive Shaft	12
FRONT SUSPENSION	20
Coil Spring and Strut Assembly	21
Stabilizer Bar	22
Transverse Link and Lower Ball Joint	23
SERVICE DATA AND SPECIFICATIONS (SDS)	25
General Specifications	25
Inspection and Adjustment	26

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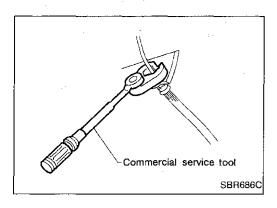
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PRECAUTIONS AND PREPARATION



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.
- 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

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

Tool number (Kent-Moore No.) Tool name	Description		
HT72520000 (J25730-A) Ball joint remover		ab	Removing tie-rod outer end and lower ball joint
ball joint removel	NT546	PATP	a: 33 mm (1.30 in) b: 50 mm (1.97 in) r: R11.5 mm (0.453 in)
HT71780000 (—) Spring compressor	NT144		Removing and installing coil spring
ST35652000 (—) Strut attachment	NT145		Fixing strut assembly
KV38106700 (J34296) KV38106800 (J34297)			Installing drive shaft
Differential side oil seal protector	NT147		LH: KV38106700 RH: KV38106800

PRECAUTIONS AND PREPARATION

Commercial Service Tools

Tool name	Description		<u>.</u>
Front wheel hub drift		Removing wheel hub	C I
	NT065	a: 42 mm (1.65 in) dia. b: 33 mm (1.30 in) dia.	MA
Front wheel bearing outer race drift		Removing and installing wheel bearing outer race	EM
	NT115	a: 76 mm (2.99 in) dia. b: 72 mm (2.83 in) dia.	LG
Grease seal drift	a b	Installing outer grease seal	
	NT115	a: 81 mm (3.19 in) dia. b: 76 mm (2.99 in) dia.	
Flare nut crows foot Torque wrench		Removing and installing brake piping	· CL
			MT
	NT360	a: 10 mm (0.39 in)	AT

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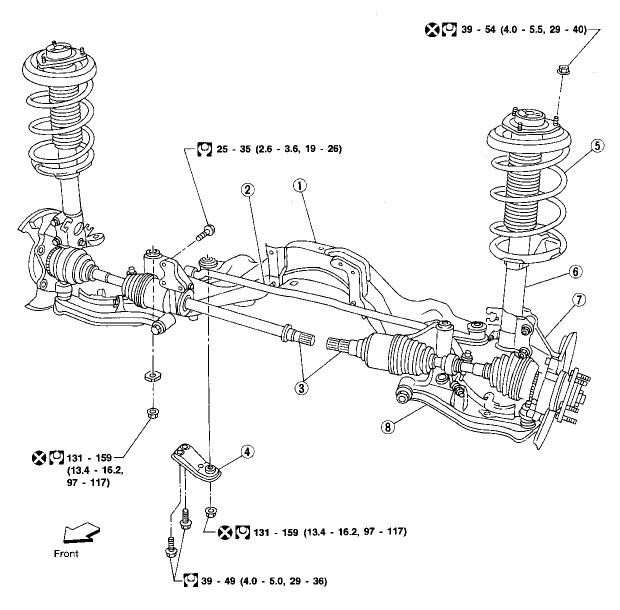
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When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground.

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



: N-m (kg-m, ft-lb)

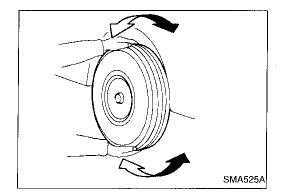
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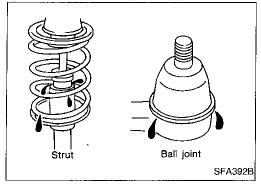
- Suspension member
- ② Stabilizer bar
- (3) Drive shaft

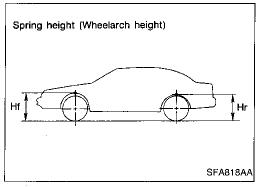
- (4) Rebound stopper
- (5) Coil spring
- 6 Strut assembly

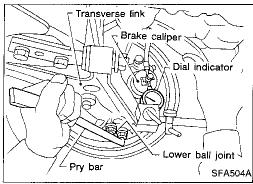
- 7) Knuckle
- 8 Transverse link

ON-VEHICLE SERVICE









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.
- Make sure that cotter pins are inserted.
- Retighten all axle and suspension nuts and bolts to the specified torque.

Tightening torque: Refer to FRONT SUSPENSION (FA-20).

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 trans-

verse link.

Check spring height from top of wheelarch to ground using the following procedure.

- 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.
- Check tires for proper inflation and wear (tread wear indicator must not be showing).
- 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.
- Check suspension ball joint end play.
- Jack up front of vehicle and set the stands.
- Clamp dial indicator onto transverse link and place indicator tip on lower edge of brake caliper.
- C. Make sure front wheels are straight and brake pedal is depressed.
- Place a pry bar between transverse link and inner rim of road wheel.
- 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 transverse link and recheck the ball joint. Refer to FA-23.

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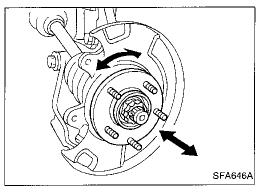
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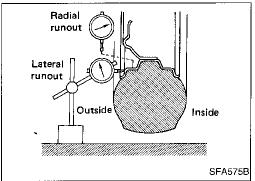
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Front Wheel Bearing

- Check that wheel bearings operate smoothly.
- Check axial end play.

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

If out of specification or wheel bearing does not turn smoothly, replace wheel bearing assembly.

Refer to FRONT AXLE — Wheel Hub and Knuckle (FA-8).

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

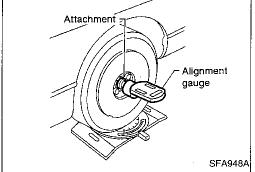
- Check tires for wear and improper inflation. 1.
- Check wheel runout.

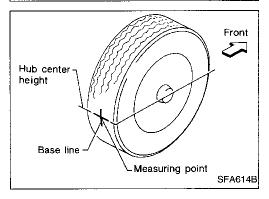
Wheel runout:

Refer to SDS (FA-26).

- 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.
- Check vehicle posture (Unladen).

Attachment





CAMBER, CASTER AND KINGPIN INCLINATION

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-26).

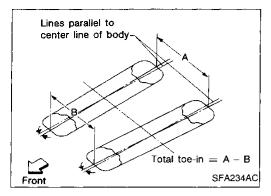
If camber, caster or kingpin inclination is not within specification, inspect front suspension parts. Replace damaged or worn out parts.

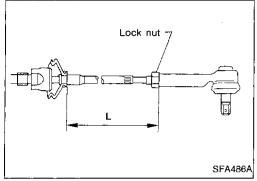
TOE-IN

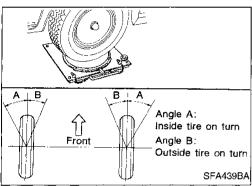
Measure toe-in using the following procedure. **WARNING:**

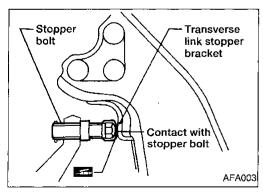
- Always perform the following procedure on a flat surface.
- Make sure that no person is in front of the vehicle before pushing it.
- Bounce front of vehicle up and down to stabilize the posture. 1.
- Push the vehicle straight ahead about 5 m (16 ft).
- Put a mark on base line of tread (rear side) of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

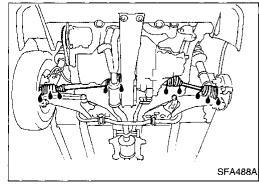
ON-VEHICLE SERVICE











Front Wheel Alignment (Cont'd)

4. Measure distance "A" (rear tires).

5. Push the vehicle slowly ahead to rotate the wheels 180 degrees (1/2 turn).

If the wheels have rotated more than 180 degrees (1/2 turn), try the above procedure again from the beginning. Never push vehicle backward.

Measure distance "B" (front tires).

Total toe-in:

Refer to SDS, (FA-26).

7. Adjust toe-in by varying the length of steering tie-rods.

a. Loosen lock nuts.

b. Adjust toe-in by screwing tie-rods in and out.

Standard length "L":

Refer to ST section.

Tighten lock nuts to specified torque.

Lock nut tightening torque:

Refer to ST section.

FRONT WHEEL TURNING ANGLE

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

Rotate steering wheel all the way right and left; measure turning angle.

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

Wheel turning angle (Full turn): Refer to SDS (FA-26).

 Check stopper bolt head to see whether it contacts stopper bracket at specified outside wheel angle. If not, adjust stopper bolt to contact stopper bracket at the correct angle.

Adjust protrusion of stopper bolt before placing stopper bolt cap.

Apply grease to face of stopper bracket that 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.

Check for grease leakage of other damage.

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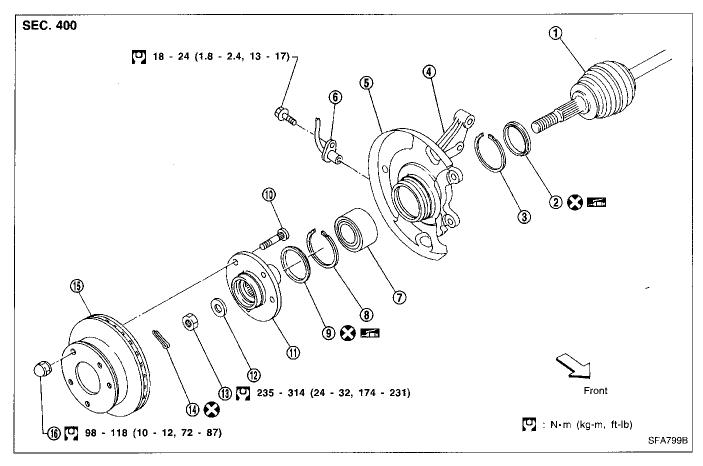
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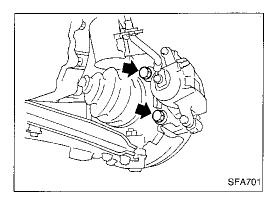
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- (1) Drive shaft
- (2) Inner grease seal
- 3 Snap ring
- (4) Knuckle
- **5** Baffle plate
- (6) ABS sensor

- (7) Wheel bearing assembly
- (8) Snap ring
- 9 Outer grease seal
- 10 Hub bolt
- 1) Wheel hub
- (12) Plain washer

- (3) Wheel bearing lock nut
- 14 Cotter pin
- Disc rotor
- 16) Wheel nut



Wheel Hub and Knuckle

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 wheel bearing lock nut.
- 2. Remove brake caliper assembly and rotor.

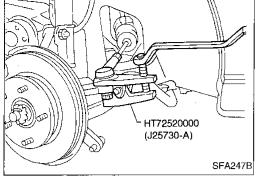
Brake hose need not be disconnected from brake caliper. In this case, suspend caliper assembly with wire so as not to stretch brake hose.

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

Wheel Hub and Knuckle (Cont'd)

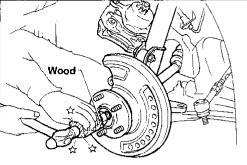
Separate tie-rod from knuckle with Tool.

Install stud nut on stud bolt to prevent damage to stud bolt.



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

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

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Loosen lower ball joint tightening nut.

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Separate knuckle from lower ball joint stud with Tool. 7. Remove knuckle from transverse link.

Remove strut lower mounting bolts.

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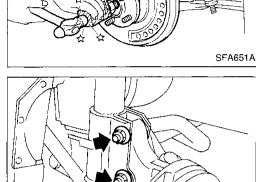


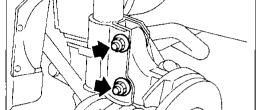


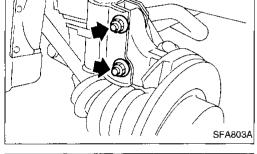
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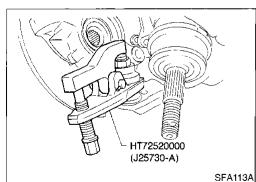
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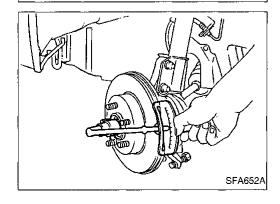
Before tightening, apply oil to threaded portion of drive shaft











INSTALLATION

6.

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

When installing knuckle to strut, be sure to hold bolts and tighten nuts. [○]: 140 - 159 N·m (14.3 - 16.2 kg-m, 103 - 117 ft-lb)

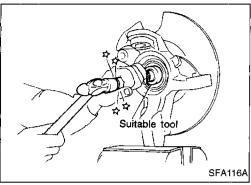
and both sides of plain washer. Tighten wheel bearing lock nut.

[○]: 235 - 314 N·m (24 - 32 kg-m, 174 - 231 ft-lb)

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Wheel Hub and Knuckle (Cont'd)

Check wheel bearing axial end play.
 Axial end play:
 0.05 mm (0.0020 in) or less.



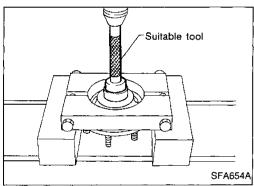
DISASSEMBLY

CAUTION:

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 hub

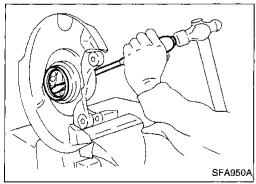
Drive out hub with inner race (outside) from knuckle with a suitable tool.



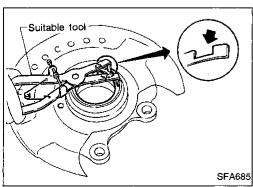
Wheel bearing

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

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



2. Remove inner grease seal from knuckle.

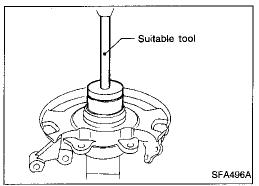


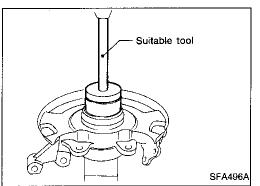
3. Remove snap ring.

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Wheel Hub and Knuckle (Cont'd)

4. Press out bearing outer race.





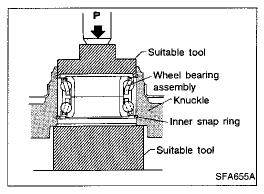
INSPECTION

Wheel hub and knuckle

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

Snap ring

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



ASSEMBLY

Install inner snap ring into groove of knuckle.

Press new wheel bearing assembly into knuckle.

Maximum load P:

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

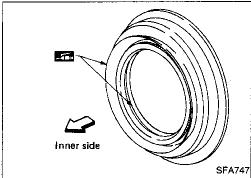
CAUTION:

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.

Install outer snap ring into groove of knuckle. 3.

Pack grease seal lip with multi-purpose grease.



Install outer grease seal.



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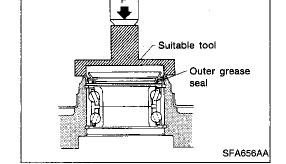
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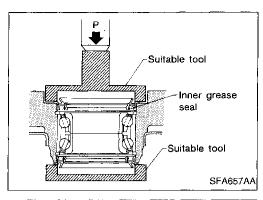
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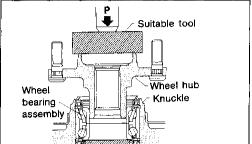
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Wheel Hub and Knuckle (Cont'd)

6. Install inner grease seal.





Suitable tool SFA658A

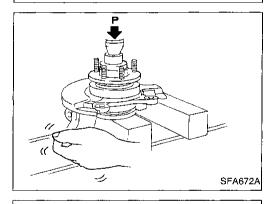
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7. Press wheel hub into knuckle.

Maximum load P:

49 kN (5 ton, 5.5 US ton, 4.9 lmp ton)

Be careful not to damage grease seal.

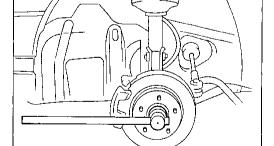


- 8. Check bearing operation.
- a. Add load P with press.

Load P:

49 kN (5 ton, 5.5 US ton, 4.9 Imp ton)

- b. Spin knuckle several turns in both directions.
- Make sure that wheel bearings operate smoothly.



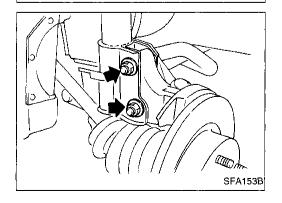
Drive Shaft

REMOVAL

1. Remove wheel bearing lock nut.

Brake caliper need not be disconnected.

Do not twist or stretch brake hose when moving components.



- 2. Remove strut lower mounting bolts.
- 3. Remove brake hose clip.

Drive Shaft (Cont'd)

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4. Separate drive shaft from knuckle by slightly tapping it. When removing drive shaft, cover boots with shop towel to prevent damage to them.

Refer to FRONT AXLE — Wheel Hub and Knuckle (FA-8).



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Remove right drive shaft from transaxle.

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Remove left drive shaft from transaxle.

-For M/T models-

Pry off drive shaft from transaxle as shown at left.

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—For A/T models—

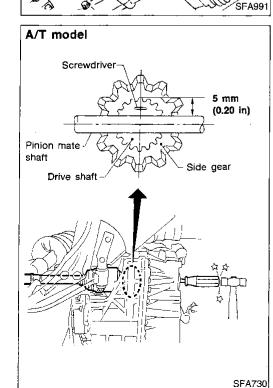
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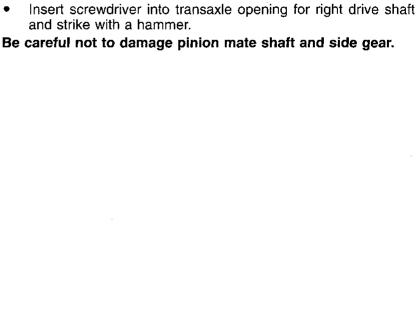
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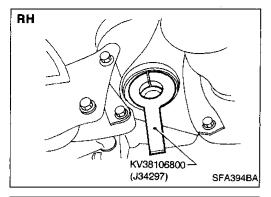
M/T model@

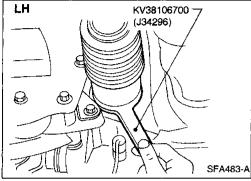


Drive Shaft (Cont'd) INSTALLATION

Transaxle side

- 1. Drive a new oil seal to transaxle. Refer to MT or AT section.
- 2. Set Tool along the inner circumference of oil seal.



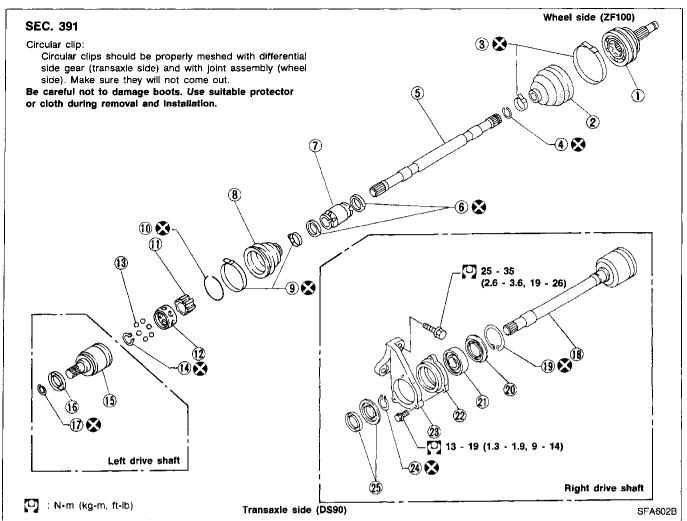


- 3. Insert drive shaft into transaxle. Be sure to properly align the serrations and then withdraw Tool.
- 4. Push drive shaft, then press-fit circular clip on the drive shaft into circular clip groove of side gear.
- After its insertion, try to pull the flange out of the slide joint by hand. If it pulls out, the circular clip is not properly meshed with the side gear.

Wheel side

- Install drive shaft into knuckle.
- Tighten wheel bearing lock nut.
 Refer to FRONT AXLE Wheel Hub and Knuckle (FA-8).

Drive Shaft (Cont'd) COMPONENTS



- Joint assembly
- 2 Boot
- 3 Boot band
- 4 Circular clip
- 5 Drive shaft
- 6 Dynamic damper band
- 7 Dynamic damper
- 8 Boot
- (9) Boot band

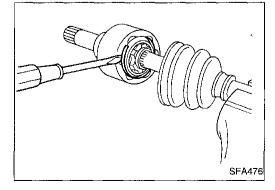
- Snap ring
- 11 Inner race
- 12 Cage
- (13) Ball
- (14) Snap ring
- (15) Slide joint housing
- 16 Dust shield
- (17) Circular clip
- Slide joint housing with extension shaft

- Snap ring
- 20 Dust shield
- Support bearing
- 2 Support bearing retainer
- ② Bracket
- (24) Snap ring
- Dust shield

DISASSEMBLY

Transaxle side

- 1. Remove boot bands.
- 2. Put matchmarks on slide joint housing and inner race, before separating joint assembly.
- Remove snap ring with a screwdriver, and pull out slide joint housing.





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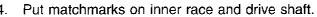
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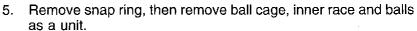
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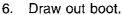
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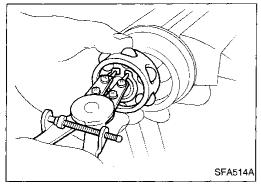
Drive Shaft (Cont'd)







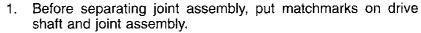
Cover drive shaft serrations with tape so as not to damage the



Wheel side

CAUTION:

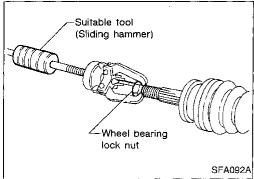
The joint on the wheel side cannot be disassembled.



2. Separate joint assembly with a suitable tool.

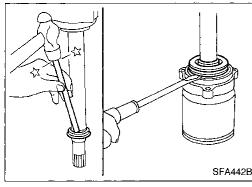
Be careful not to damage threads on drive shaft.

3. Remove boot bands.

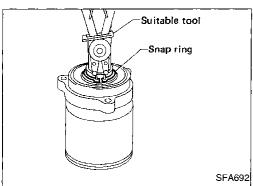


Support bearing

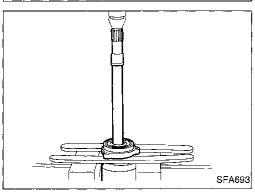
1. Remove dust shield.



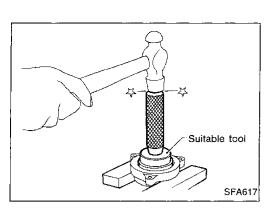
2. Remove snap ring.



3. Press support bearing assembly off of drive shaft.



Drive Shaft (Cont'd)



4. Separate support bearing from retainer.

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INSPECTION

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

EC

Drive shaft

Replace drive shaft if it is twisted or cracked.

FE

Boot

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

MT

CL.

Joint assembly

Replace joint assembly if it is deformed or damaged.

AT

Support bearing

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

FA

Support bearing bracket

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

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ASSEMBLY

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

ST

Use NISSAN GENUINE GREASE or equivalent after every overhaul.

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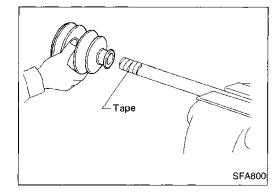
Wheel side

Install boot and new small boot band on drive shaft.

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

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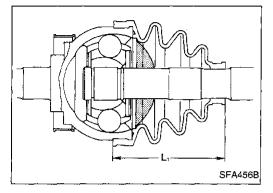


Wheel bearing lock nut

SFA130A

Drive Shaft (Cont'd)

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

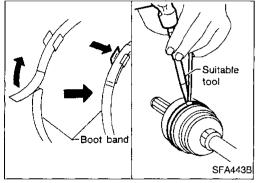


3. Pack drive shaft with specified amount of grease.

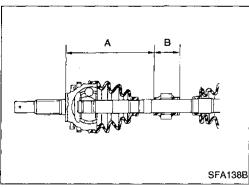
Specified amount of grease: 135 - 145 g (4.76 - 5.11 oz)

 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_1 ".



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

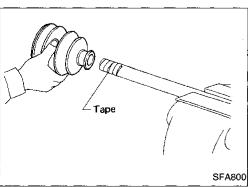


Dynamic damper

1. Use new damper band when reinstalling.

Install dynamic damper from stationary-joint side while holding it securely.

(Left side only)
Length "A" 205 - 215 mm
(8.07 - 8.46 in)
"B" 50 mm (1.97 in)

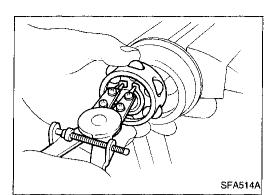


Transaxle side

Install boot and new small boot band on drive shaft.

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

Drive Shaft (Cont'd)



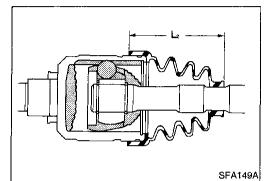
- 2. Install ball cage, inner race and balls as a unit, making sure the marks which were made during disassembly are properly aligned.
- 3. Install new snap ring.



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1. Pack drive shaft with specified amount of grease.

Specified amount of grease: 165 - 175 g (5.82 - 6.17 oz)

- 5. Install slide joint housing, then install new snap ring.
- 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 "L2".

FE

Length "L2": 97 - 99 mm (3.82 - 3.90 in)

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

CL

Support bearing

• Press bearing into retainer.

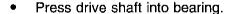
MT

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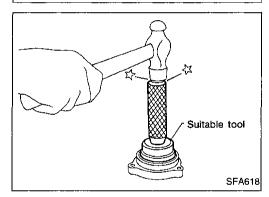
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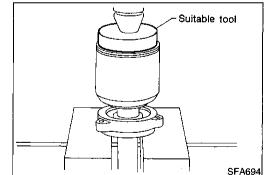
RS

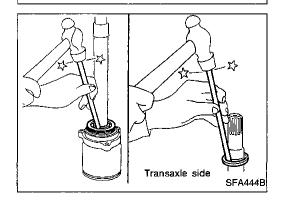
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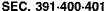
EL

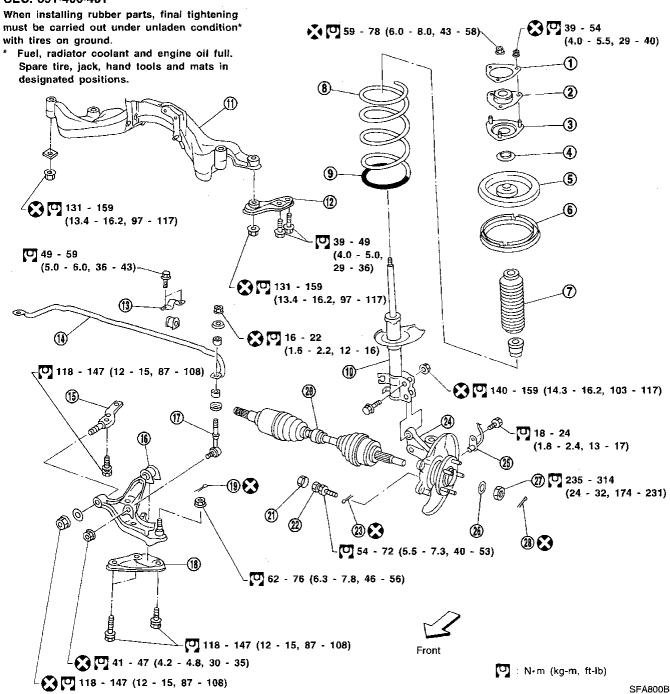






- Install snap ring.
- Install new dust shield.

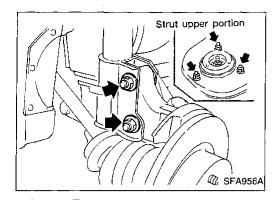




- (1) Spacer
- Strut mounting insulator
- 3 Strut mounting insulator bracket
- 4 Strut mounting bearing
- (5) Upper spring seat
- 6 Upper spring rubber seat
- 7 Bound bumper
- (8) Coil spring
- (Polyurethane tube)
- Strut assembly

- (1) Suspension member
- 12 Rebound stopper
- 3 Stabilizer clamp
- (14) Stabilizer bar
- (15) Link bushing pin
- 16 Transverse link
- (17) Connecting rod
- (18) Compression rod bushing clamp
- (19) Cotter pin
- ② Drive shaft

- 21) Cap
- Stopper bolt
- 23) Cotter pin
- 24) Knuckle
- 25 ABS sensor
- Plain washer
- Wheel bearing lock nut
- 28 Cotter pin



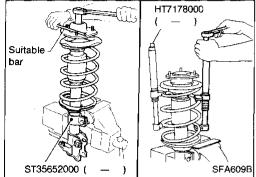
Coil Spring and Strut Assembly **REMOVAL AND INSTALLATION**

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



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DISASSEMBLY

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

Do not remove piston rod lock nut at this time.

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

EC

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Remove piston rod lock nut.

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INSPECTION

SFA610B

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Shock absorber 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.

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Mounting insulator and rubber parts

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

Replace if necessary.

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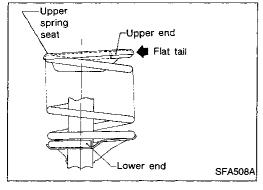
Thrust bearing

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

Replace if necessary.

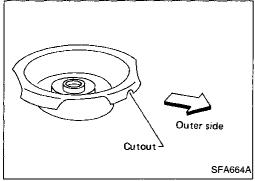
Coil Spring and Strut Assembly (Cont'd) Coil spring

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

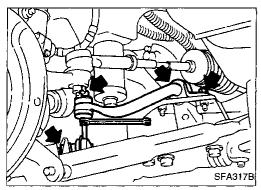


ASSEMBLY

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



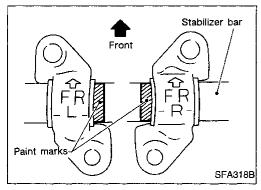
 Install upper spring seat with its cutout facing the outer side of vehicle.



Stabilizer Bar

REMOVAL AND INSTALLATION

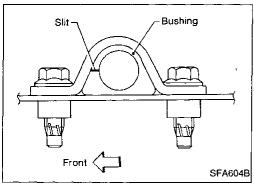
Remove stabilizer bar.



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

FRONT SUSPENSION

Stabilizer Bar (Cont'd)



 Make sure that slit in bushing is in the position shown in the figure.

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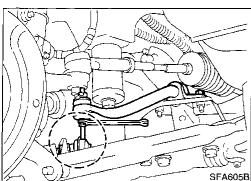
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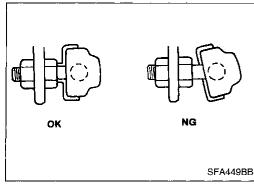
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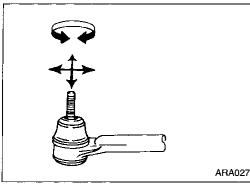
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When removing and installing stabilizer bar.

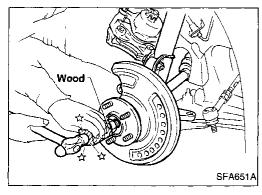


Install stabilizer bar with ball joint socket properly placed.



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

- 1. Remove wheel bearing lock nut.
- 2. Remove tie-rod ball joint.
- 3. Remove strut lower bracket fixing bolts and nuts.
- Separate drive shaft from knuckle by slightly tapping drive shaft end.

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

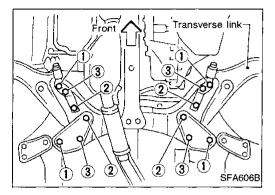
FA-23 877

FRONT SUSPENSION

HT72520000 (J25730-A) SFA113A

Transverse Link and Lower Ball Joint (Cont'd)

5. Separate lower ball joint stud from knuckle with suitable tool. Refer to FRONT AXLE — Wheel Hub and Knuckle (FA-8).



- 6. Remove fixing bolts.
- 7. Remove transverse link and lower ball joint.
- 8. Install fixing bolts in order of number.

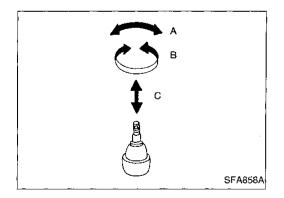
Tightening torque:

Refer to FRONT SUSPENSION (FA-20).

- During installation, final tightening must be carried out at curb weight with tires on the ground.
- 10. After installation, check wheel alignment. Refer to ON-VE-HICLE SERVICE Front Wheel Alignment (FA-6).

INSPECTION

- 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.



- 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):

7.8 - 77.5 N (0.8 - 7.9 kg, 1.8 - 17.4 lb)

Turning torque "B":

0.49 - 4.90 N m (5.0 - 50 kg-cm, 4.3 - 43.4 in-lb)

Vertical end play "C":

0 mm (0 in)

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

FA-24 878

SERVICE DATA AND SPECIFICATIONS (SDS)

General Specifications

COIL SPRING

Ар	plied model	M/T	A/T	
Wire diameter	mm (in)	13.7 (0.539)	13.9 (0.547)	
Coil outer diameter	mm (in)	171.9 - 174.9 (6.77 - 6.89)	172.3 - 175.3 (6.78 - 6.90)	
Free length	mm (in)	390 (15.35)	400 (15.75)	
Identification color		Yellow x 2, Yellow x 1	Yellow x 2, White x 1	

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STRUT

Applied model	All
Piston rod diameter mm (in)	22 (0.87)

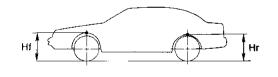
DRIVE SHAFT

	А	pplied model	All	ĿC
Joi	nt type			
	Transaxle side		DS90	EC
	Wheel side		ZF100	
Во	ot length	mm (in)		FE
	Transaxle side L_2		97 - 99 (3.82 - 3.90)	
	Wheel side L ₁		96 - 98 (3.78 - 3.86)	CL
Gre	ease		Nissan genuine grease or equivalent	.,,
	Capacity	g (oz)		MT
	Transaxle side		165 - 175 (5.82 - 6.17)	
	Wheel side		135 - 145 (4.76 - 5.11)	AT

FRONT STABILIZER BAR

App	olied model	All	
Stabilizer diameter	mm (irı)	21 (0.83)	
Identification color		White	

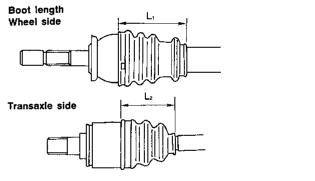
WHEELARCH HEIGHT (Unladen*)



SFA818A	١
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Applied model		*1	*2
Front (Hf)	mm (in)	713 (28.07)	713 (28.07)
Rear (Hr)	mm (in)	715 (28.15)	713 (28.07)

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



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FA-25 879

^{*1:} Models equipped with 205/65 R15 tires

^{*2:} Models equipped with 215/60 R15 tires

SERVICE DATA AND SPECIFICATIONS (SDS)

Inspection and Adjustment

WHEEL ALIGNMENT (Unladen*1)

Camber			Minimum	-1°00' (-1.00°)
			Nominal	-0°15′ (-0.25°)
		Degree minute	Maximum	0°30′ (0.50°)
		(Decimal degree)	Left and right difference	45' (0.75°) or less
Caster			Minimum	2°00′ (2.00°)
			Nominal	2°45′ (2.75°)
		Degree minute	Maximum	3°30′ (3.50°)
	4	(Decimal degree)	Left and right difference	45' (0.75°) or less
Kingpin inclination	·		Minimum	13°30′(13.50°)
		Degree minute	Nominal	14°15′ (14.25°)
(Decimal degree)		Maximum	15°00′ (15.00°)	
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	5.5′ (0.09°)
		Dograo minuto	Nominal	11' (0.18°)
			Maximum	16' (0.27°)
Wheel turning angle			Minimum	36°00′ (36.00°)
	Inside		Nominal	39°30′ (39.50°)
-		Degree minute (Decimal degree)	Maximum	40°30′ (40.50°)
Full turn*2	Outside	Degree minute (Decimal degree)	Nominal	32°00′ (32.00°)

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

WHEEL BEARING

Wheel bearing axial end play limit mm (in)	0.05 (0.0020)
Wheel bearing lock nut tightening torque N·m (kg-m, ft-lb)	235 - 314 (24 - 32, 174 - 231)

LOWER BALL JOINT

Swinging force "A" (Measured at cotter pin hole)	
N (kg, lb)	7.8 - 77.5 (0.8 - 7.9, 1.8 - 17.4)
Turning torque "B" N·m (kg-cm, in-lb)	0.49 - 4.90 (5.0 - 50, 4.3 - 43.4)
Vertical end play limit "C" mm (in)	0 (0)

WHEEL RUNOUT

Unit: mm (in)

Wheel type	Aluminum wheel	Steel wheel
Maximum radial runout limit	0.3 (0.012)	0.5 (0.020)
Maximum lateral runout limit	0.3 (0.012)	0.8 (0.031)

FA-26 880

^{*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.