FRONT & REAR AXLE

SECTION AX

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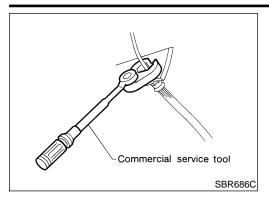












Precautions PRECAUTIONS

NIAXOOO

- 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.
 Preparation

SPECIAL SERVICE TOOLS

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

NIAX0002

Tool number (Kent-Moore No.) Tool name	Description	
HT72520000 (J25730-B) Ball joint remover	NT146	Removing tie-rod outer end and lower ball joint
KV38106800 (J34297-1) Differential side oil seal protector	NT147	Installing drive shaft

COMMERCIAL SERVICE TOOLS

NIAX0003

Tool name	Description	
1 Flare nut crowfoot 2 Torque wrench	nt360	Removing and installing each brake piping a: 10 mm (0.39 in)

Noise, Vibration and Harshness (NVH) Troubleshooting

NVH TROUBLESHOOTING CHART

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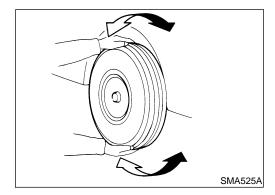
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Use the chart below to help you find the cause of the symptom. If necessary, repair or replace these parts.

Reference page			ı	AX-15	Refer to MA-41, WHEEL BALANCE	AX-7, 24	AX-4	AX-4, 22	Refer to DRIVE SHAFT in this chart.	Refer to AXLE in this chart.	Refer to SU-4, NVH	Refer to SU-4, NVH	Refer to SU-4, NVH	Refer to BR-6 , NVH	Refer to ST-5 , NVH
Possible cause a SUSPECTED PA			Excessive joint angle	Joint sliding resistance	Imbalance	Improper installation, looseness	Parts interference	Wheel bearing damage	DRIVE SHAFT	AXLE	SUSPENSION	TIRES	ROAD WHEEL	BRAKES	STEERING
	DRIVE SHAFT	Noise, Vibration	×	×						×	×	×	×	×	×
	DIAVE OF IVAL	Shake	×		×					×	×	×	×	×	×
		Noise				×	×		×		×	×	×	×	×
		Shake				×	×		×		×	×	×	×	×
Symptom		Vibration				×	×		×		×	×			×
	AXLE	Shimmy				×	×				×	×	×	×	×
		Judder				×					×	×	×	×	×
		Poor quality ride or handling				×	×	×			×	×	×		

×: Applicable



On-vehicle Service FRONT AXLE PARTS

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

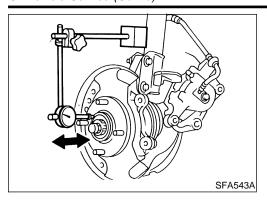
- Shake each front wheel to check for excessive play.
- Make sure that the cotter pin is properly installed.
- Retighten all axle and suspension nuts and bolts to the specified torque.

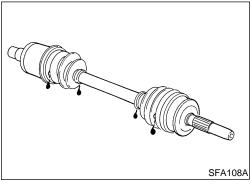
Tightening torque: Refer to *SU-5*, "Components".

AX-3

FRONT AXLE

On-vehicle Service (Cont'd)





FRONT WHEEL BEARING

- Rotate wheel hub to 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.

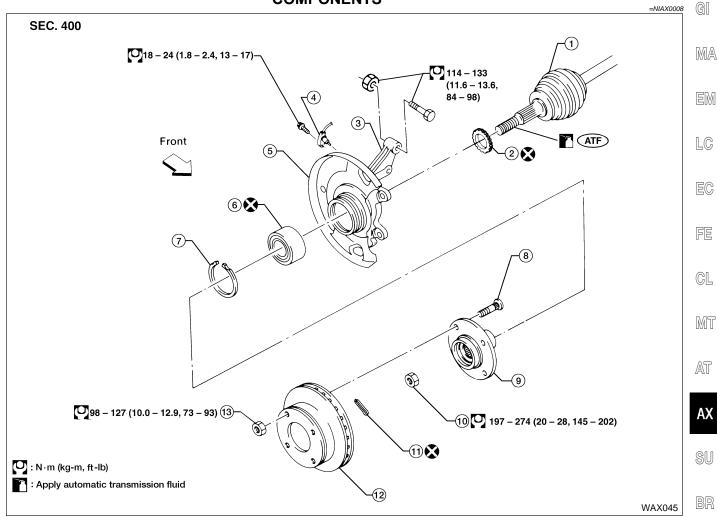
Refer to "Wheel Hub and Knuckle", AX-5.

DRIVE SHAFT

NIAX0007

Check for grease leakage or other damage.

Wheel Hub and Knuckle **COMPONENTS**



- 1. Drive shaft
- ABS sensor rotor 2.
- 3. Knuckle
- 4. ABS sensor
- 5. Baffle plate

- 6. Wheel bearing assembly
- 7. Snap ring
- 8. Wheel bolt
- 9. Wheel hub

- 10. Wheel bearing lock nut
- 11. Cotter pin
- 12. Disc rotor
- 13. Wheel nut

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.

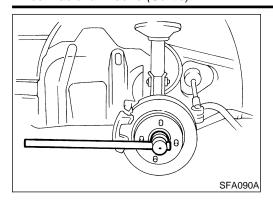
Failure to do so may result in damage to the sensor wires and the sensor becoming inoperative.

BT

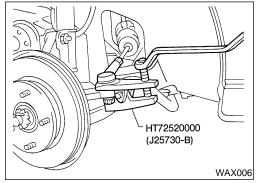
AX

ST



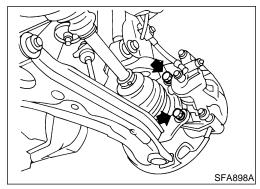


1. Remove cotter pin and wheel bearing lock nut.



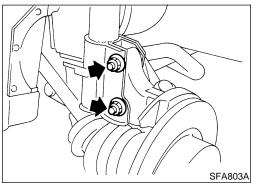
2. Separate tie-rod from knuckle with Tool.

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

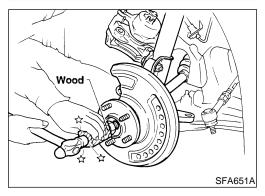


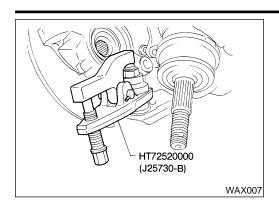
- 3. Remove brake caliper assembly, torque member and rotor.
- Brake hose need not be disconnected from brake caliper. In this case, suspend caliper assembly with wire so as not to stretch brake hose. Be careful not to depress brake pedal, or piston will pop out.
 Make sure brake hose is not twisted.

4. Remove strut lower mounting nuts and bolts.



- 5. Separate drive shaft from knuckle by lightly tapping it. If it is hard to remove, use a puller.
- Cover boots with shop towel so as not to damage them when removing drive shaft.





- Loosen lower ball joint nut.
- 7. Remove knuckle from lower ball joint stud with Tool.



MA

LC



SFA114A

INSTALLATION

Install in reverse order of removal.

NIAX0010

Install knuckle with wheel hub.

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

FE

(11.6 - 13.6 kg-m, 84 - 98 ft-lb)

Before tightening, apply oil to threaded portion of drive shaft.

GL

Tighten wheel bearing lock nut.

(20 - 28 kg-m, 145 - 202 ft-lb)

MT

Rotate wheel hub to check that wheel bearings operate smoothly.

AT

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Axial end play:

0.05 mm (0.0020 in) or less



NIAX0011



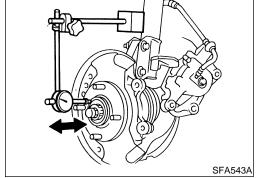
When removing wheel hub or wheel bearing from knuckle, replace wheel bearing assembly (outer race and inner race) with a new one.

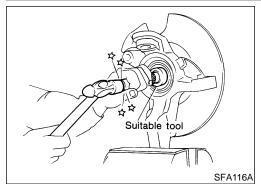
Rotate wheel hub to check wheel bearing axial end play.

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.

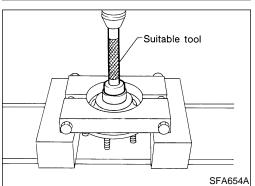
Wheel bearing drags or turns roughly. This occurs when turning hub by hand after bearing lock nut is tightened to specified torque.





Wheel Hub

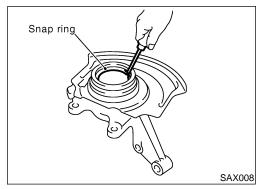
Drive out hub and inner race from knuckle with a suitable tool.



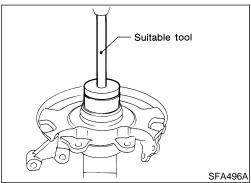
Wheel Bearing

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

1. Remove bearing inner race.



Remove snap rings.



- Press out bearing outer race.
- Remove baffle plate, if required.

INSPECTION

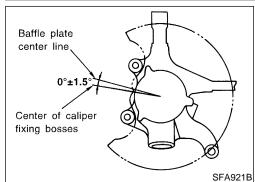
Wheel Hub and Knuckle

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

Snap Ring

NIAX0012S02

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



ASSEMBLY

If baffle plate has been removed, replace it with a new one. When installing the baffle plate, press new plate so that it is in

contact with knuckle wall. Refer to figure at left.

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Press new wheel bearing assembly into knuckle until it seats against knuckle shoulder.

Maximum load P:

34 kN (3.5 ton, 3.9 US ton, 3.4 Imp ton)

CAUTION:

FE

Do not apply disassembly force in direction "R". There is a possibility of breaking the seal. In case of separation (except range of initial clearance) and disassembling of inner race, the wheel bearing shall be replaced with a new part.

CL

Do not press inner race of wheel bearing assembly or seal.

MT

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

AT

Install outer snap ring into groove of knuckle.

AX



Press wheel hub into knuckle until it stops when the end of the

ST

Maximum load P:

wheel bearing is hit.

49 kN (5.0 ton, 5.5 US ton, 4.9 Imp ton)

Do not move wheel hub in direction "R".

BT

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Check bearing operation.

SC

Add load P with press.

34.3 - 49.0 kN

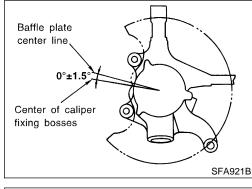
Load P:

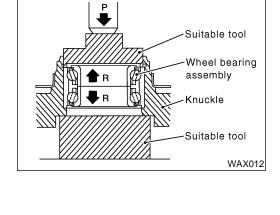
b.

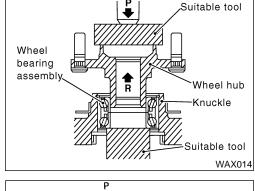
EL

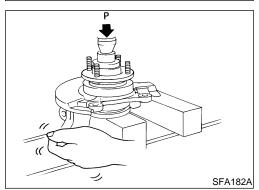
(3.5 - 5.0 ton, 3.9 - 5.5 US ton, 3.44 - 4.92 Imp ton) Spin knuckle several turns in both directions.

Make sure that wheel bearings operate smoothly.







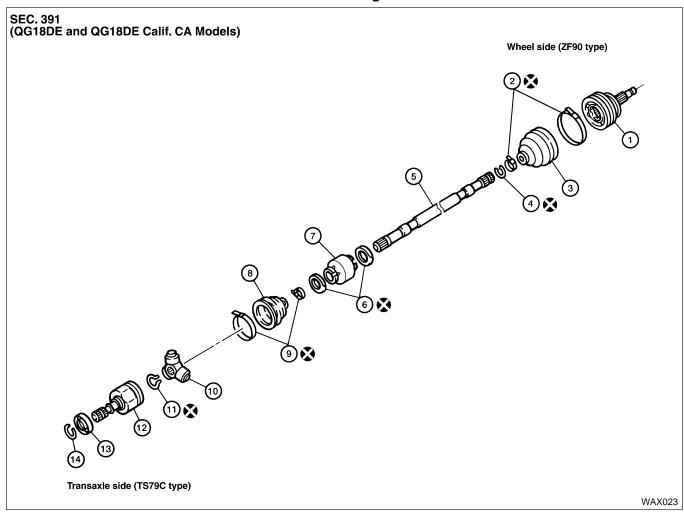


Drive Shaft COMPONENTS

CAUTION:

=NIAX0016

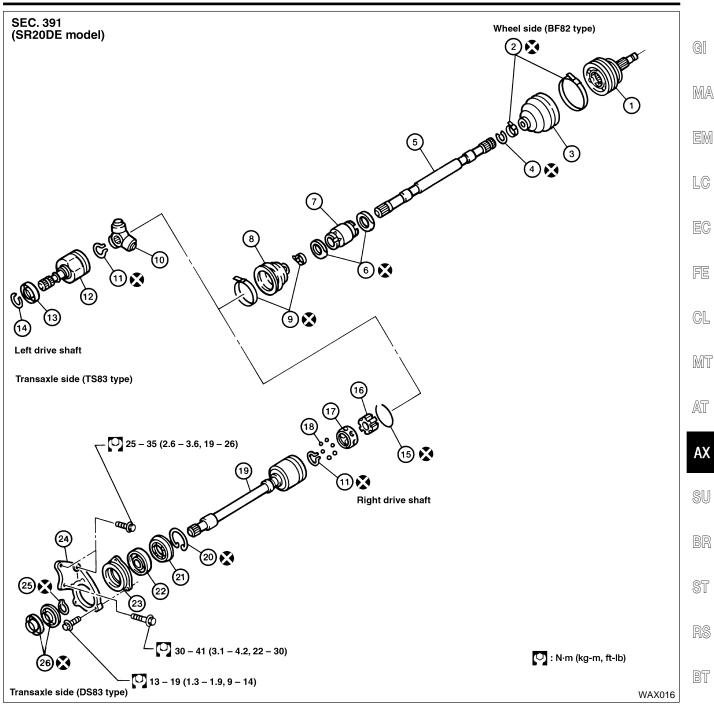
- Circular clips should be properly meshed with differential side gear (transaxle side) and with joint assembly (wheel side). Make sure they will not come out.
- Be careful not to damage boots. Use suitable protector or cloth during removal and installation.



- 1. Joint assembly
- 2. Boot band
- 3. Boot
- 4. Circular clip B
- 5. Drive shaft

- 6. Band
- 7. Dynamic damper
- 8. Boot
- 9. Boot band
- 10. Spider assembly

- 11. Snap ring C
- 12. Slide joint housing
- 13. Dust shield
- 14. Circular clip A



- 1. Joint assembly
- 2. Boot band
- 3. Boot
- 4. Circular clip B
- Drive shaft 5.
- 6. Band
- 7. Dynamic damper
- 8. Boot
- Boot band

- 10. Spider assembly
- 11. Snap ring C
- 12. Slide joint housing
- 13. Dust shield
- 14. Circular clip A
- 15. Snap ring A
- 16. Inner race
- 17. Cage
- 18. Ball

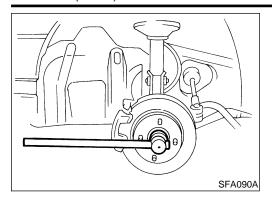
- 19. Slide joint housing with extension shaft
- 20. Snap ring E
- 21. Dust shield
- 22. Support bearing
- 23. Support bearing retainer
- 24. Bracket
- 25. Snap ring D
- 26. Dust shield

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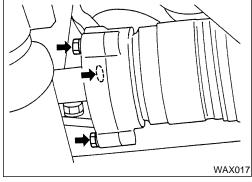
IDX



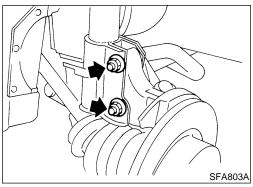
REMOVAL

1. Remove cotter pin and wheel bearing lock nut.

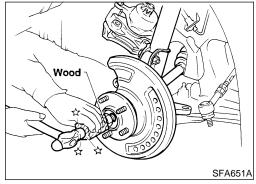
NIAX0014



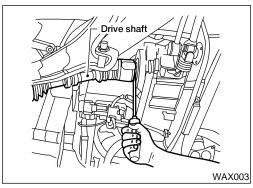
2. Remove drive shaft center support bearing bolts.



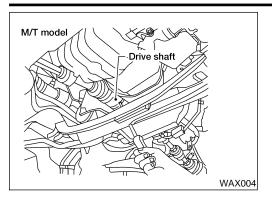
- 3. Remove strut lower mounting nuts and bolts.
- 4. Remove brake hose clip.



- 5. Separate drive shaft from knuckle by lightly tapping it. If it is hard to remove, use a puller.
- Cover boots with shop towel so as not to damage them when removing drive shaft.



6. Remove left drive shaft from transaxle.



5 mm

(0.20 in)

Side gear

WAX005

Screwdriver

Drive shaft

Pinion mate

shaft

RH

7. Remove right 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 —

 Insert screwdriver into transaxle opening for right drive shaft and strike with a hammer.

EG

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

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Transaxle Side

NIAX0015S01

NIAX0015

Drive a new oil seal to transaxle. Refer to *MT-9*, "Replacing Oil Seal" or *AT-273*, "Differential Side Oil Seal Replacement".

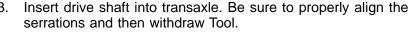
RS

Set Tool along the inner circumference of oil seal.

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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.

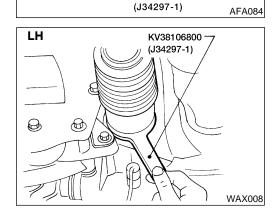


NIAX0015S02

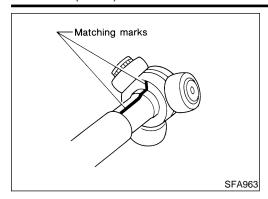
Wheel Side

Install drive shaft into knuckle.

Tighten strut lower mounting nuts and wheel bearing lock nut.



KV38106800



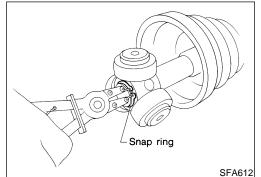
DISASSEMBLY

Transaxle Side (TS79C and TS83 type)

NIAX0017

NIAX0017S01

- 1. Remove boot bands.
- Put matching marks on slide joint housing and drive shaft before separating joint assembly.
- 3. Put matching marks on spider assembly and drive shaft.

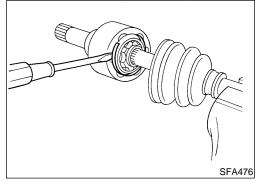


Remove snap ring, then remove spider assembly.

CAUTION:

Do not disassemble spider assembly.

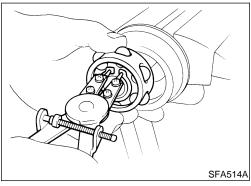
- 5. Draw out boot.
- Cover drive shaft serrations with tape so as not to damage the boot.



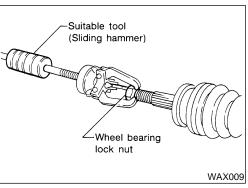
Transaxle Side (DS83 type)

NIAX0017S04

- 1. Remove boot bands.
- 2. Put matching marks on slide joint housing and inner race, before separating joint assembly.
- 3. Pry off snap ring A with a screwdriver, and pull out slide joint housing.



- 4. Put matching marks on inner race and drive shaft.
- Remove snap ring C, then remove ball cage, inner race and balls as a unit.
- 6. Draw out boot.
- Cover drive shaft serrations with tape to prevent damage to the boot.



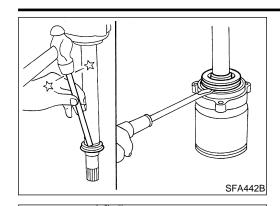
Wheel Side

NIAX0017S02

CAUTION:

The joint on the wheel side cannot be disassembled.

- 1. Before separating joint assembly, put matching marks on drive shaft and joint assembly.
- 2. Separate joint assembly with a suitable tool.
- Be careful not to damage threads on drive shaft.
- 3. Remove boot bands.



Suitable tool

Snap ring

SFA692

Suitable tool

SFA617

Support Bearing

1. Remove dust shield.



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2. Remove snap ring.



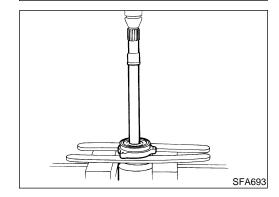
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Press support bearing assembly off drive shaft.





Separate support bearing from retainer.



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Remove snap ring. 5. Remove dust shield.



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



Drive Shaft

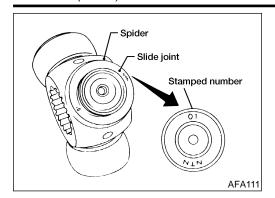
Replace drive shaft if it is twisted or cracked.

NIAX0018S01

Boot

4.

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



Joint Assembly (Transaxle side) TS79C and TS83 Type

NIAX0018S03

- Check spider assembly for needle bearing and washer damage. Replace if necessary.
- Check roller surfaces for scratches, wear and other damage. Replace if necessary.
- Check serration for deformation. Replace if necessary.
- Check slide joint housing for any damage. Replace if necessary.
- When replacing only spider assembly, select a new spider assembly from among those listed in table below. Ensure that the number stamped on slide joint is the same as that stamped on new part.

Housing alone cannot be replaced. It must be replaced together with spider assembly.

Stamped number	Part No.*
01	39720-61E01
02	39720-61E02
03	39720-61E03
04	39720-61E04
05	39720-61E05
06	39720-61E06
07	39720-61E07

^{*:} Always check with the Parts Department for the latest parts information.

DS83 Type

NIAX0018S030

- 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)

NIAX0018S04

Replace joint assembly if it is deformed or damaged.

Support Bearing

NIAX0018S0401

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

Support Bearing Bracket

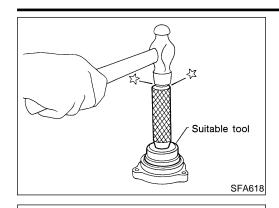
NIAX0018S0402

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

ASSEMBLY

NIAX0019

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



Suitable tool

SFA694

SFA444B

SFA800

WAX010

Support Bearing

1. Install bearing into retainer.



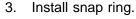
GI

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2. Install dust shield.



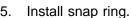


Press drive shaft into bearing.



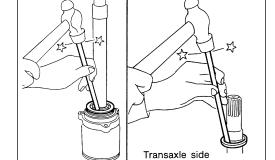
GL

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Install new dust shield.











Wheel Side



NIAX0019S01

Install boot and new small boot band on drive shaft.

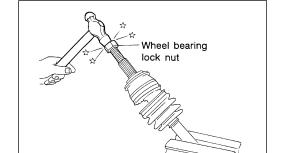
Cover drive shaft serration with tape to prevent damage to boot during installation.



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- Tape

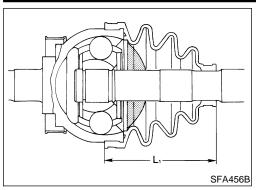
Set joint assembly onto drive shaft by lightly tapping it.

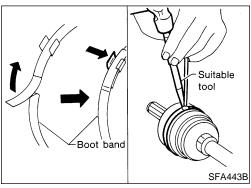
Ensure that marks which were made during disassembly

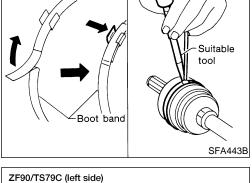
are properly aligned.

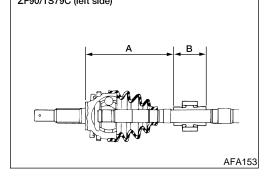


Drive Shaft (Cont'd)









Pack drive shaft with specified amount of grease.

Specified amount of grease:

80 - 100 g (2.82 - 3.53 oz)

Make sure that boot is properly installed on the drive shaft

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

Length "L₁":

QG18DE: 97 mm (3.82 in) SR20DE: 95 mm (3.74 in)

5. Lock new large and small boot bands securely with a suitable tool.

Dynamic Damper

NIAX0019S02

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

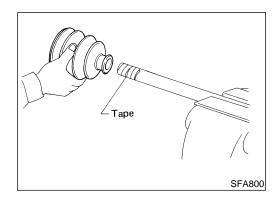
Length:

Unit: mm (in)

Applied model	QG1	SR20DE		
Applied Model	pplied model LH		SKZUDE	
"A"	175-185 (6.89 - 7.28)	420-430 (16.54 - 16.93)	169-175 (6.65 - 6.89)	
″B″	70 (2.76)	64 (2.52)	70 (2.76)	

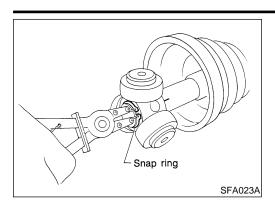
Transaxle Side (TS79C)

- Install boot and new small boot band on drive shaft.
- Cover drive shaft serration with tape to prevent damage to boot during installation.



FRONT AXLE

Drive Shaft (Cont'd)



Install spider assembly securely, making sure the matching marks which were made during disassembly are properly aligned.

Install new snap ring.



MA

LC

4. Pack drive shaft with specified amount of grease.

Specified amount of grease: 125 - 145 g (4.41 - 5.11 oz)

EC

Install slide joint housing. 5.

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

Length "L2":

SFA993

QG18DE: 102.5 mm (4.035 in)

SR20DE: 99 mm (3.90 in)

GL

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

AT

AX

SU

BR

ST

Lock new large and small boot bands securely with a suitable tool.

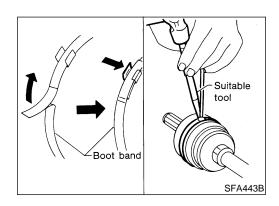
RS

BT

HA

SC

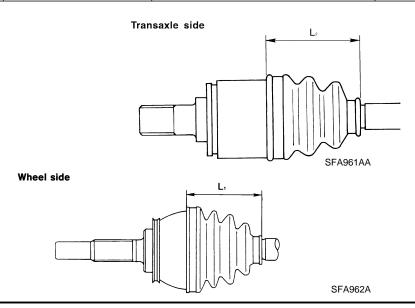
EL



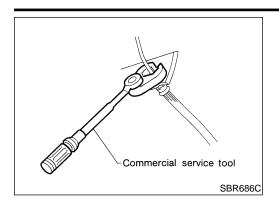
Service Data and Specifications (SDS) DRIVE SHAFT

=NIAX	(002	
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				=NIAXUU2U		
Applied model	Applied model		pplied model QG18DE		QG18DE	SR20DE
laint turn a	Transaxle side				79C	
Joint type	Wheel side		Joint type Wheel side ZF90		90	
	Quality		Quality Genuine NISSAN grease or equivalent		rease or equivalent	
Grease	Capacity g Transaxle side		125 - 145 (4.41 - 5.11)		
	(oz) Wheel side		80 - 100 (2	2.82 - 3.53)		
Boot	Transaxle side	"L ₂ "	102.5 (4.035)	99 (3.90)		
length mm (in) Wheel side "L ₁ "		,	97 (3.82)	95 (3.74)		



WHEEL BEARING (FRONT) Wheel bearing axial end play limit mm (in) Wheel bearing lock nut tightening torque N·m (kg-m, ft-lb) 197 - 274 (20 - 28, 145 - 202)



Precautions PRECAUTIONS

When installing each rubber part, 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.



Do not jack up at the trailing arm and lateral link.

LC

Always torque brake lines when installing.

EG

GL

FE

MT

AT

Preparation

SPECIAL SERVICE TOOLS

NIAX0032

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		A
KV40104710 (—) Drift	a b	Install ABS sensor rotor a: 76.3 mm (3.004 in) dia. b: 67.9 mm (3.673 in) dia.	si Bi
ST3072000	NT474	Install ABS sensor rotor	 §1
(—) Drift	a b	a: 77 mm (3.03 in) dia. b: 55.5 mm (2.185 in) dia.	R
	NT115		

BT

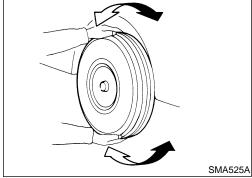
COMMERCIAL SERVICE TOOLS

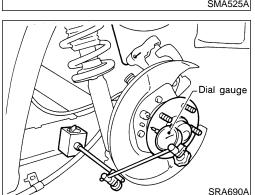
NIAX0024

Tool name	Description		H
GG94310000 1 Flare nut crowfoot 2 Torque wrench		Removing and installing brake piping a: 10 mm (0.39 in)	- \$(
	NT360		

Noise, Vibration and Harshness (NVH) **Troubleshooting**

Refer to "Noise, Vibration and Harshness (NVH) Troubleshooting", AX-3.





On-vehicle Service REAR AXLE PARTS

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

- Shake each rear wheel to check for excessive play.
- Retighten all axle and suspension nuts and bolts to the specified torque.

Tightening torque:

Refer to SU-17, "Components".

REAR WHEEL BEARING

NIAX0027

Check axial end play.

Axial end play:

0.05 mm (0.0020 in) or less

- Check that wheel hub bearings operate smoothly.
- Check tightening torque of wheel bearing lock nut.

(19 - 26 kg-m, 138 - 188 ft-lb)

If out of specification or if wheel bearing does not turn smoothly, replace wheel bearing assembly. Refer to "Wheel Hub", AX-23.

GI

MA

LC

FE

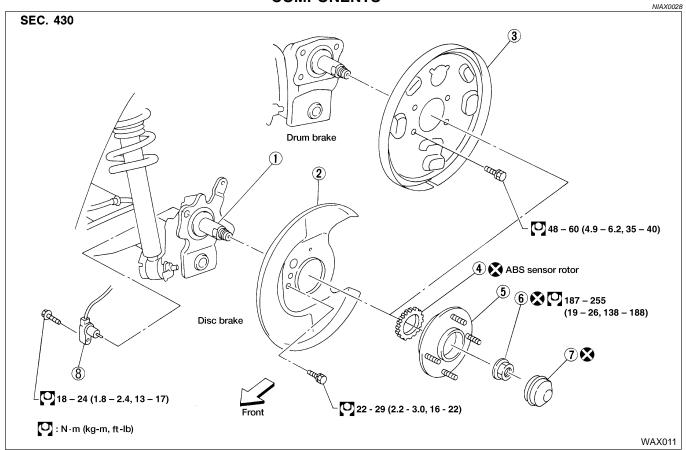
GL

MT

AT

AX

Wheel Hub **COMPONENTS**



- 1. Spindle
- Baffle plate 2.
- Back plate

- 4. ABS sensor rotor
- 5. Wheel hub bearing
- Wheel bearing lock nut
- 7. Hub cap
- ABS wheel sensor

REMOVAL

CAUTION:

- Before removing the rear wheel hub assembly, disconnect the ABS wheel sensor from the assembly. Then move it away from the hub assembly. Failure to do so may result in damage to the sensor wires and the sensor becoming inoperative.
- Wheel hub bearing does not require maintenance. If any of the following symptoms are noted, replace wheel hub bearing assembly.
- 1) Growling noise is emitted from wheel hub bearing during operation.
- Wheel hub bearing drags or turns roughly. This occurs when turning hub by hand after bearing lock nut is tightened to specified torque.















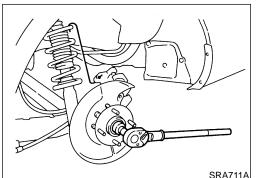


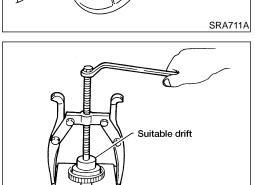






REAR AXLE





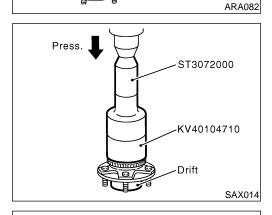
- 1. Remove brake caliper assembly.
- 2. Remove wheel bearing lock nut.
- 3. Remove brake rotor.
- 4. Remove wheel hub bearing from spindle.

Brake hose does not need to be disconnected from brake caliper.

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.

5. Remove the ABS sensor rotor using suitable puller, drift and bearing replacer.



INSTALLATION

With vehicles equipped with ABS, press-fit ABS sensor rotor into wheel hub bearing using a drift.

Do not reuse ABS sensor rotor. When installing, replace it with a new one.

For drum brake

17.7 – 18.7 mm
(0.70 – 0.74 in)

ABS sensor rotor

For disc brake

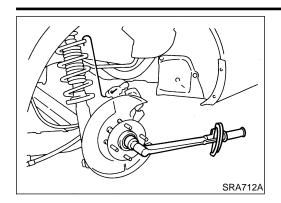
1.5 – 2.5 mm
(0.06 – 0.10 in)

ABS sensor rotor

WAX013

 Press-fit ABS sensor rotor as far as the location shown in figure at left.

REAR AXLE



Dial gauge

SRA737A

SFA599B

Spindle

Lock nut

- Install wheel hub bearing.
- Tighten wheel bearing lock nut. Before tightening, apply oil to threaded portion of rear spindle. Do not reuse wheel bearing lock nut.

(19 - 26 kg-m, 138 - 188 ft-lb)

Check that wheel bearings operate smoothly.



LC

Check wheel hub bearing axial end play.

Axial end play:

0.05 mm (0.0020 in) or less







GL

MT

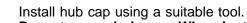
Clinch two places of lock nut.

AT

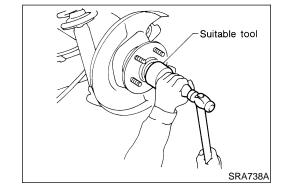


SU

BR



Do not reuse hub cap. When installing, replace it with a new one.



RS

BT

HA

SC

EL

REAR AXLE

Service Data and Specifications (SDS)

Service Data and Specifications (SDS) WHEEL BEARING (REAR)

=NIAX0031

Wheel bearing axial end play limit mm (in)	0.05 (0.0020) or less
Wheel bearing lock nut tightening torque N·m (kg-m, ft-lb)	187 - 255 (19 - 26, 138 - 188)