FRONT & REAR AXLE

SECTION AX

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Precautions PRECAUTIONS

NAAX0001

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

NAAX0002

Tool number (Kent-Moore No.) Tool name	Description		
ST29020001 (J24319-01) Ball joint remover		c b a	Removing tie-rod outer end and lower ball joint a: 34 mm (1.34 in) b: 6.5 mm (0.256 in) c: 61.5 mm (2.421 in)
	NT694		
KV401021S0 (—) Bearing race drift			Installing wheel bearing outer race
	NT153		
KV40105400 (J36001) Wheel bearing lock nut wrench			Removing and installing wheel bearing lock nut
	NT154		

COMMERCIAL SERVICE TOOLS

NAAX0003

Tool name	Description	
1 Flare nut crowfoot 2 Torque wrench	NT360	Removing and installing each brake piping a: 10 mm (0.39 in)
Hub cap drift	NT115	Installing hub cap (2WD) a: 85 mm (3.35 in) dia. b: 72 mm (2.83 in) dia. Installing hub cap (4WD) a: 57 mm (2.24 in) dia. b: 46 mm (1.81 in) dia.

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

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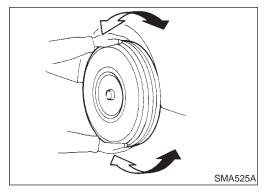
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NVH TROUBLESHOOTING CHART

NAAX0034S01 Use the chart below to help you find the cause of the symptom. If necessary, repair or replace these parts.

		. ,															
Reference pa	age		1	AX-14	I	AX-6, 20	I	AX-4, 19	PD-4	PD-4	Refer to DRIVE SHAFT in this chart.	Refer to AXLE in this chart.	SU-3	SU-3	SU-3	BR-6	ST-6
Possible caus			Excessive joint angle	Joint sliding resistance	Imbalance	Improper installation, looseness	Parts interference	Wheel bearing damage	PROPELLER SHAFT	DIFFERENTIAL	DRIVE SHAFT	AXLE	SUSPENSION	TIRES	ROAD WHEEL	BRAKES	STEERING
	DRIVE	Noise, Vibration	×	×					×	×		×	×	×	×	×	×
	SHAFT	Shake	×		×				×			×	×	×	×	×	×
		Noise				×	×		×	×	×		×	×	×	×	×
		Shake				×	×		×		×		×	×	×	×	×
Symptom	AXLE	Vibration				×	×		×		×		×	×			×
		Shimmy				×	×						×	×	×	×	×
		Judder				×							×	×	×	×	×
		Poor quality ride or handling				×	×	×					×	×	×		

×: Applicable



On-vehicle Service FRONT AXLE PARTS

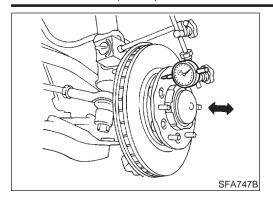
Check front axle parts for excessive play, cracks, wear and other damage.

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

Tightening torque:

Refer to "Wheel Hub and Rotor Disc", AX-6.

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FRONT WHEEL BEARING

NAAX0005

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

Axial end play: 0 mm (0 in)

3. Adjust wheel bearing preload if there is any axial end play or wheel bearing does not turn smoothly.

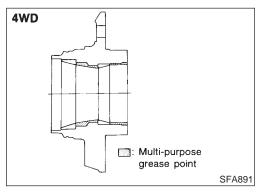
Preload Adjustment

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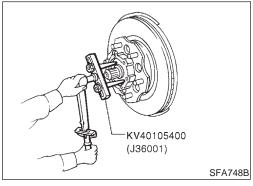
Adjust wheel bearing preload after wheel bearing has been replaced or front axle has been reassembled.

Adjust wheel bearing preload as follows:

 Before adjustment, thoroughly clean all parts to prevent dirt entry.

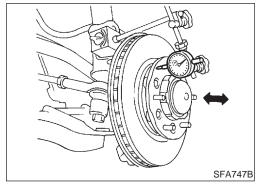


- 2. Apply multi-purpose grease sparingly to the following parts:
- Threaded portion of spindle
- Contact surface between wheel bearing lock washer (chamfered side) and outer wheel bearing
- Grease seal lip
- Wheel hub (as shown at left) 4WD —



- 3. Tighten wheel bearing lock nut with Tool.
 - (8 10 kg-m, 58 72 ft-lb)
- 4. Turn wheel hub several times in both directions.
- 5. Loosen wheel bearing lock nut so that torque becomes 0 N⋅m (0 kg-m, 0 ft-lb).
- Retighten wheel bearing lock nut with Tool.

(0.05 - 0.15 kg-m, 4.3 - 13.0 in-lb)

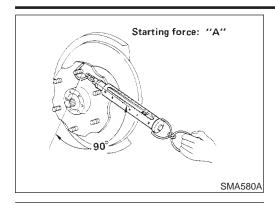


- 7. Turn wheel hub several times in both directions.
- 8. Retighten wheel bearing lock nut with Tool.

○ : 0.5 - 1.5 N·m (0.05 - 0.15 kg-m, 4.3 - 13.0 in-lb)

9. Measure wheel bearing axial end play.

Axial end play: 0 mm (0 in)

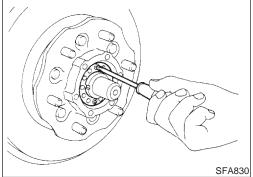


10. Measure starting force "A" at wheel hub bolt.



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11. Install lock washer by tightening the lock nut within 15 to 30 degrees.



12. Turn wheel hub several times in both directions to seat wheel bearing correctly.



13. Measure starting force "B" at wheel hub bolt. Refer to procedure 10.



14. Wheel bearing preload "C" can be calculated as shown below.

$$C = B - A$$

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Wheel bearing preload "C":

7.06 - 20.99 N (0.72 - 2.14 kg, 1.59 - 4.72 lb)



15. If wheel bearing preload "C" is outside specifications, remove lock washer. Tighten or loosen lock nut within ±15 degrees (Refer to step 11 above). Install lock washer, then repeat steps 12, 13 and 14.



16. Repeat above procedures until correct axial end play and wheel bearing preload are obtained.

17. Install drive flange (4WD models) and wheel hub cap.

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DRIVE SHAFT



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

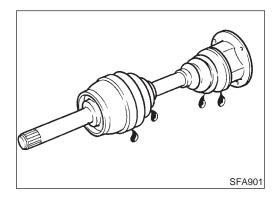




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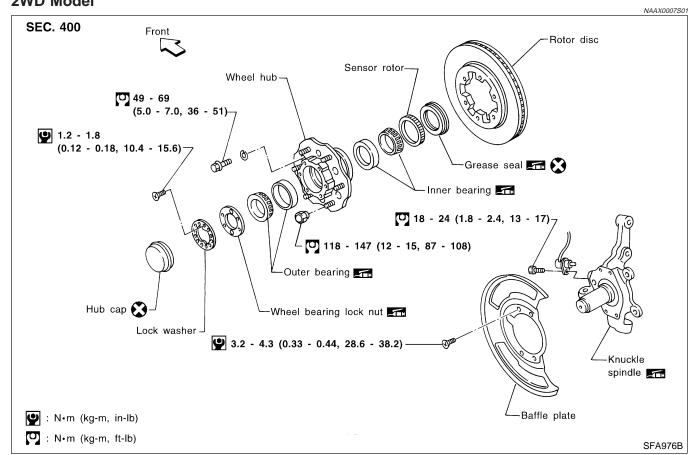
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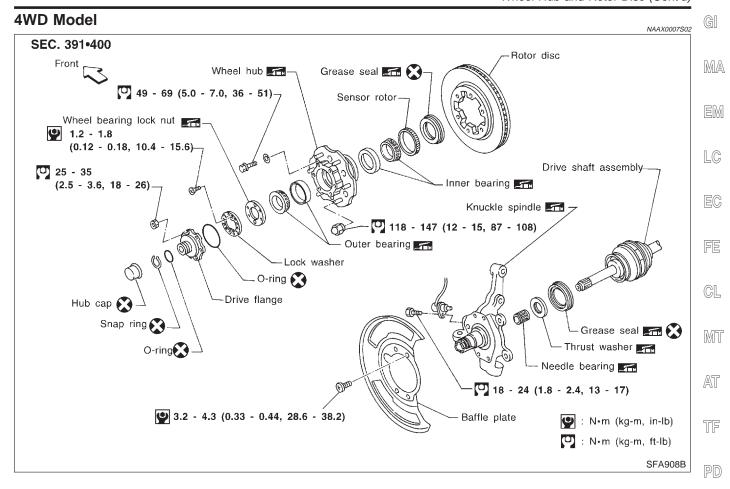


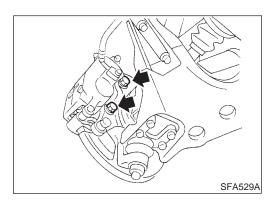
Wheel Hub and Rotor Disc

COMPONENTS 2WD Model

NAAX0007







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.

Remove brake caliper assembly.

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

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

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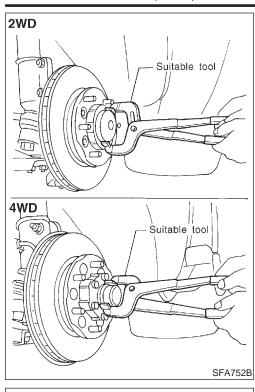
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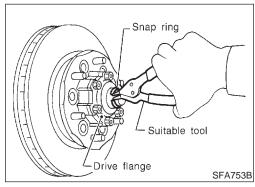
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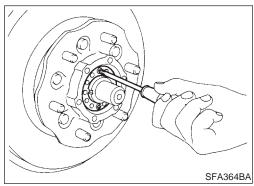


2. Remove hub cap with suitable tool.

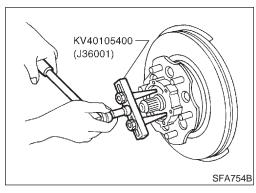


3. Remove snap ring with suitable tool. — 4WD —

4. Remove drive flange. — 4WD —



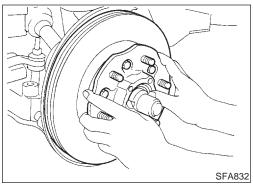
5. Remove lock washer.



6. Remove wheel bearing lock nut.

FRONT AXLE

Wheel Hub and Rotor Disc (Cont'd)



Remove wheel hub and wheel bearing. Be careful not to drop outer bearing.

INSTALLATION

After installing wheel hub and wheel bearing, adjust wheel bearing preload.

Refer to "Preload Adjustment", "FRONT WHEEL BEARING", "On-vehicle Service", AX-4.

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Pack drive flange groove with grease, apply grease to O-ring (two places) and mating surface of drive flange, and install flange. — 4WD —

EG

Install snap ring. — 4WD —

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4. Install hub cap using a suitable tool.

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

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DISASSEMBLY

Remove grease seal and bearing outer races with suitable brass bar.

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INSPECTION

Thoroughly clean wheel bearings and wheel hub.

NAAX0011

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Wheel Bearing

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

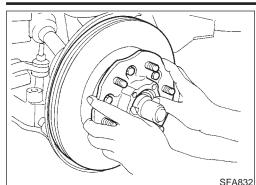
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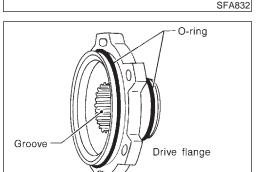
Wheel Hub

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

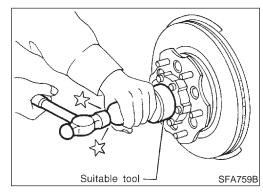
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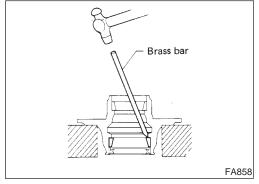


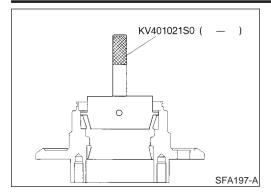




SFA755B



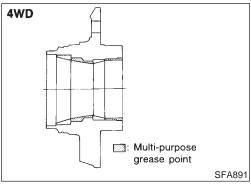




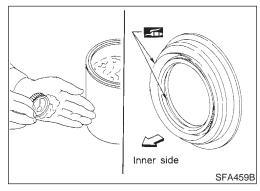
ASSEMBLY

NAAX0012

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



2. Pack multi-purpose grease into wheel hub. — 4WD —

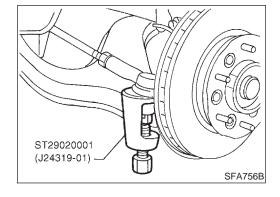


- 3. Apply multi-purpose grease to each bearing cone.
- 4. Pack grease seal lip with multi-purpose grease, then install it into wheel hub with suitable drift.

Knuckle Spindle REMOVAL

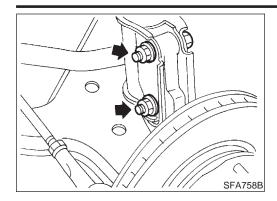
NAAX0013

 Remove drive shaft. — 4WD — Refer to "Drive Shaft", AX-12.



Separate tie-rod end and lower ball joint from knuckle with Tool.

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



Separate knuckle from strut.

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INSPECTION

EG NAAX0014

Knuckle Spindle

Check knuckle spindle for deformation, cracks and other damage by using a magnetic exploration or dyeing test.

NAAX0014S02

Needle Bearing — 4WD — Check needle bearing for wear, scratches, pitting, flaking and

burn marks.

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INSTALLATION 1. Install needle bearing into knuckle spindle. — 4WD —

Make sure that needle bearing is facing in proper direction. Apply multi-purpose grease.

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2. Install knuckle with wheel hub.

Install tie-rod end and lower ball joint.

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4. After installing knuckle spindle, adjust wheel bearing preload. Refer to "Preload Adjustment", "FRONT WHEEL BEARING", "On-vehicle Service", AX-4.

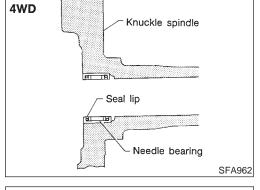
5. After installing drive shaft, check drive shaft axial end play. Do not reuse snap ring once it has been removed. Refer to "Drive Shaft", AX-12.

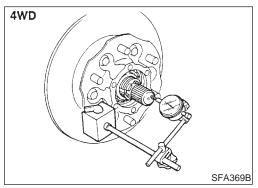
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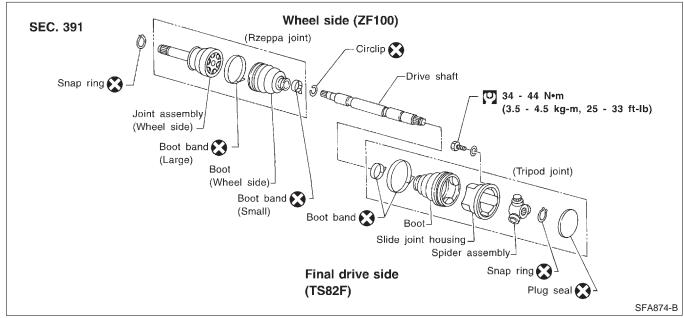
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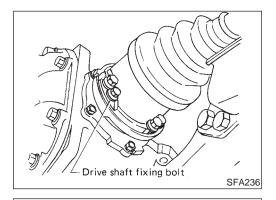




Drive Shaft COMPONENTS

NAAX001

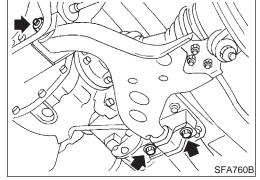




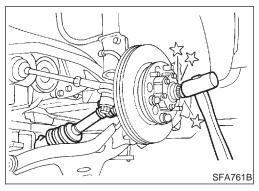
REMOVAL

NAAX0017

- Remove hub cap and snap ring.
 Refer to "REMOVAL", "Wheel Hub and Rotor Disc", AX-7.
- 2. Remove bolts fixing drive shaft to final drive.

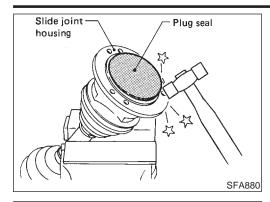


3. Remove transverse link fixing nut and bolts.



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

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

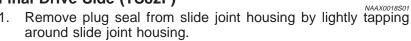


DISASSEMBLY

Final Drive Side (TS82F)





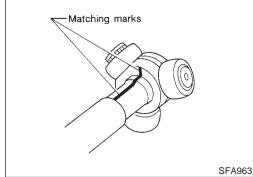


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Remove boot bands.

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Snap ring

SFA964

Move boot and slide joint housing toward wheel side, and put matching marks.



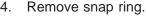
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5. Detach spider assembly with press.



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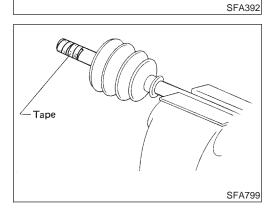
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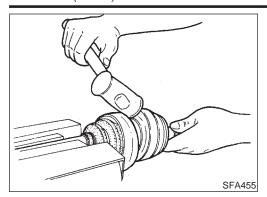
Cover drive shaft serration with tape so as not to damage the boot.



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6. Draw out boot.



Wheel Side (ZF100)

CAUTION:

The joint on the wheel side cannot be disassembled.

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

Be careful not to damage threads on drive shaft.

Remove boot bands.

INSPECTION

NAAX0019

NAAX0018S02

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

Drive Shaft

NAAX0019S01

Replace drive shaft if it is twisted or cracked.

Boot

NAAX0019S02

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

Joint Assembly (Final drive side)

IAAX0019S03

- 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)

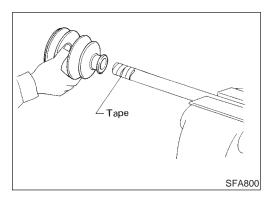
NAAX0019S04

Replace joint assembly if it is deformed or damaged.

ASSEMBLY

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

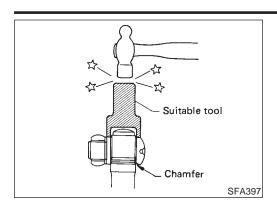


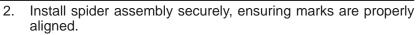
Final Drive Side (TS82F)

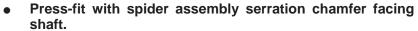
NAAX0020S0

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

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







3. Install new snap ring.



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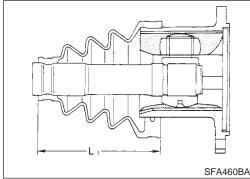
4. Pack with grease.

Specified amount of grease:

95 - 105 g (3.35 - 3.70 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 "L₁".

Length "L₁": 95 - 97 mm (3.74 - 3.82 in)



Lock new larger boot band securely with a suitable tool, then lock new smaller boot band.

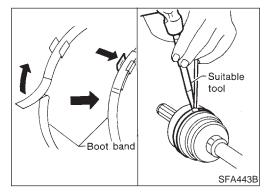
7. Install new plug seal to slide joint housing by lightly tapping it.

Apply sealant to mating surface of plug seal.



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Wheel Side (ZF100)

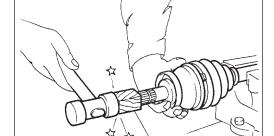
1. Install new small boot band and boot on drive shaft.

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

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Wood

SFA800

SFA884

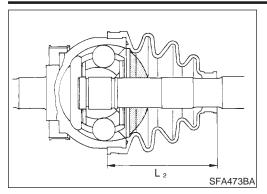
 \angle Tape

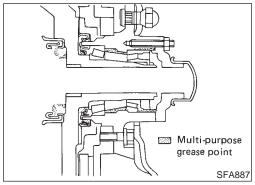
 Set joint assembly onto drive shaft by lightly tapping it.
 Install joint assembly securely, ensuring marks which were made during disassembly are properly aligned.

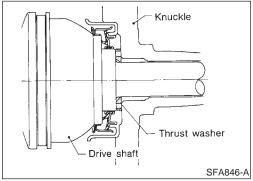
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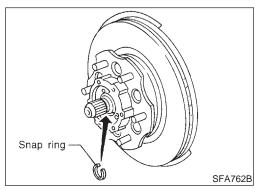
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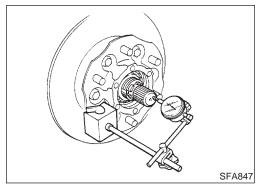
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3. Pack drive shaft with specified amount of grease.

Specified amount of grease:

135 - 145 g (4.76 - 5.11 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 "L₂".

Length "L2": 96 - 98 mm (3.78 - 3.86 in)

- 5. Lock new larger boot band securely with a suitable tool.
- 6. Lock new smaller boot band.

INSTALLATION

1. Apply multi-purpose grease.

NAAX0021

2. Install thrust washer onto drive shaft.

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

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

- b. Set dial gauge on drive shaft end.
- c. Measure axial end play of drive shaft.

Axial end play: 0.45 mm (0.0177 in) or less

d. If axial end play is not within the specified limit, select another snap ring.

1.3 mm (0.051 in) 2.1 mm (0.083 in) 1.5 mm (0.059 in) 2.3 mm (0.091 in) 1.7 mm (0.067 in)	1.5 mm (0.059 in)	,
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Service Data and Specifications (SDS)

WHEEL BEARING (FRONT)

NAAX0022

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

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DRIVE SHAFT (4WD)

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	Final drive side		TS82F	
Drive shaft joint type	Wheel side		ZF100	(
	Fixed joint axial end play limit		1 mm (0.04 in)	
Diameter	Wheel side (D ₁)		29.0 mm (1.142 in)	
	Quality		Nissan genuine grease or equivalent	
Grease	On a situal annual at manage	Final drive side	95 - 105 g (3.35 - 3.70 oz)	
	Specified amount of grease	Wheel side	135 - 145 g (4.76 - 5.11 oz)	
Drive shaft axial end pla	Drive shaft axial end play		0.45 mm (0.0177 in) or less	
Poot longth	Final drive side (L ₁)		95 - 97 mm (3.74 - 3.82 in)	. 1
Boot length	Wheel side (L ₂)		96 - 98 mm (3.78 - 3.86 in)	ļ

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Wheel side









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SAX001





VAAX0033S01

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



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Precautions PRECAUTIONS

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

NAAX0024

Tool number (Kent-Moore No.) Tool name	Description	
KV40101000 (J25604-01) Axle stand		Removing rear axle shaft
	NT159	
ST36230000 (J25840-A) Sliding hammer		Removing rear axle shaft
	NT126	
ST38020000 (—) Bearing lock nut wrench		Removing wheel bearing lock nut
	NT160	
HT72480000 or HT72210000 (J25852-B) Rear axle shaft bearing puller	NT161	Removing wheel bearing
ST37840000 (—) Rear axle shaft guide		Installing rear axle shaft
	NT162	

COMMERCIAL SERVICE TOOLS NAAX0025 Tool name Description MA 1 Flare nut crowfoot Removing and installing each brake piping 2 Torque wrench a: 10 mm (0.39 in) LC NT360 Rear axle oil seal drift Installing oil seal a: 74 mm (2.91 in) dia. EG b: 68 mm (2.68 in) dia. c: 10 mm (0.39 in) NT163 GL

Noise, Vibration and Harshness (NVH) Troubleshooting

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



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SMA525A

On-vehicle Service REAR AXLE PARTS

Check rear axle parts for excessive play, wear and damage.

1. Shake each rear wheel to check for excessive play.

2. Retighten all nuts and bolts to the specified torque.

Tightening torque: Refer to "Components", AX-20.



ST

REAR WHEEL BEARING

1. Check that wheel bearings operate smoothly.

NAAX0027

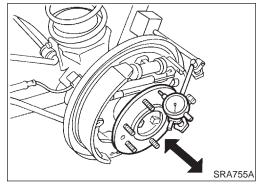
2. Check axial end play.

Axial end play: 0 mm (0 in)

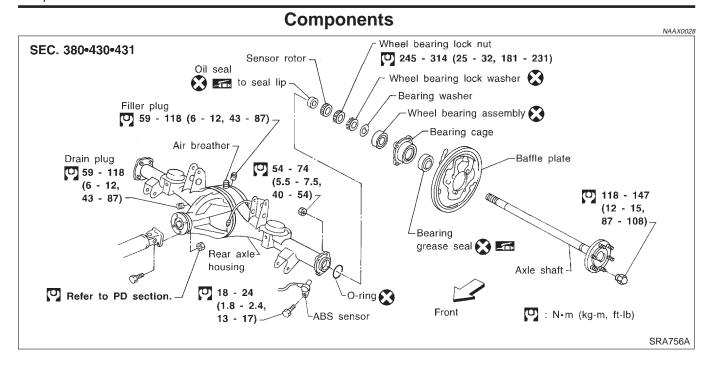


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CAUTION:

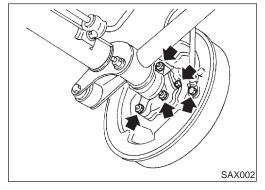
Removal

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

NAAX0029

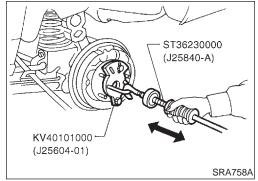
• Wheel bearing does not require maintenance.

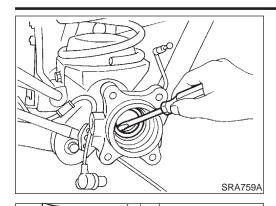
- If growling noise is emitted from wheel bearing during operation, replace wheel bearing assembly.
- If the wheel bearing assembly is removed, it must be renewed.
 The old assembly must not be re-used.
- 1. Disconnect parking brake cable and brake tube.
- 2. Remove nuts securing wheel bearing cage with baffle plate.



3. Draw out axle shaft with Tool.

When drawing out axle shaft, be careful not to damage oil seal.





4. Remove oil seal with a screwdriver.

Do not reuse oil seal once it is removed. Always install new one.

5. Remove ABS sensor rotor.

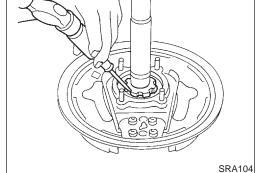


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SRA728

HT72480000 or

HT72210000 (J25852-B)

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ST38020000

KV40101000 (J25604-01) 6. Unbend lock washer with a screwdriver.

Do not reuse lock washer once removed. Always install new



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7. Remove bearing lock nut with Tool.

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8. Remove wheel bearing together with bearing cage and baffle plate from axle shaft.

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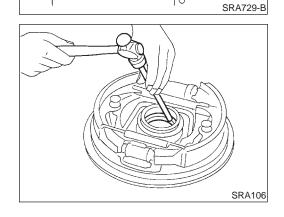
P. Remove grease seal with a screwdriver.

10. Remove wheel bearing assembly with a brass drift.

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AX-21

Inspection

AXLE SHAFT

NAAX0030

Check axle shaft for straightness, cracks, damage, wear and distortion. Replace if necessary.

BEARING CAGE

NAAXOO3OSO2

Check bearing cage for deformation and cracks. Replace if necessary.

REAR AXLE HOUSING

IAAX0030S03

Check rear axle housing for yield, deformation and cracks. Replace if necessary.

Installation

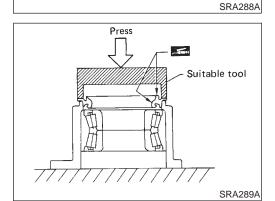
14.4.1/0.004

 Press new wheel bearing until it bottoms end face of bearing cage.

Maximum load P:

39 kN (4 ton, 4.4 US ton, 3.9 Imp ton)

Always press outer race of wheel bearing during installation.

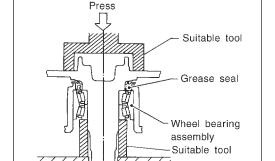


Press

Suitable tool

2. Press new grease seal until it bottoms end face of bearing cage.

After installing new grease seal, coat sealing lip with multipurpose grease.

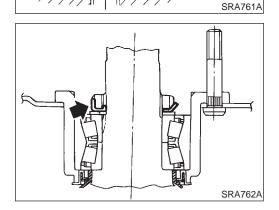


3. Press axle shaft into inner race of wheel bearing.

Maximum load P:

47.1 kN (4.8 ton, 5.3 US ton, 4.72 Imp ton)

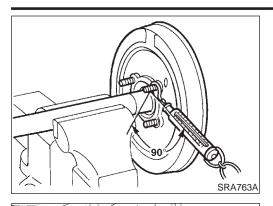
Be careful not to damage and deform grease seal.



- 4. Install plain washer and a new wheel bearing lock washer.
- 5. Tighten wheel bearing lock nut to specified torque.

(25 - 314 N·m (25 - 32 kg-m, 181 - 231 ft-lb)

Fit wheel bearing lock washer lip in wheel bearing lock nut groove correctly by tightening lock nut. Be sure to bend it up.





Turn bearing cage (with respect to axle shaft) two or three times. It must turn smoothly.

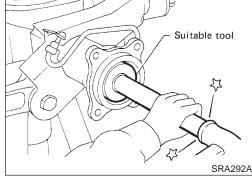
Attach spring gauge to bearing cage bolt (as shown at left) and pull it at a speed of 10 rpm to measure preload.

Spring gauge indication:

6.9 - 48.1 N (0.7 - 4.9 kg, 1.5 - 10.8 lb)

EM LC

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7. Install new oil seal to rear axle housing using a suitable tool. After installing new oil seal, coat sealing lip with multi-purpose grease.

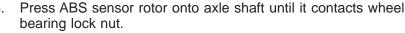


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Position axle shafts in rear axle housing with Tool as a guide.

Be careful not to damage oil seal.

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10. Check axial end play.

SRA012

SRA755A

Check that wheel bearings operate smoothly.

Check axial end play.

Axial end play:

0 mm (0 in)





Service Data and Specifications (SDS)

WHEEL BEARING (REAR)

ST37840000

NAAX0032

Wheel bearing axial end play	0 mm (0 in)
Wheel bearing lock nut tightening torque	245 - 314 N·m (25 - 32 kg-m, 181 - 231 ft-lb)
Wheel bearing preload measured at bearing cage bolt	6.9 - 48.1 N (0.7 - 4.9 kg, 1.5 - 10.8 lb)



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NOTES