

FAX

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PRECAUTIONS

PRECAUTIONS PFP:00001

Precautions

CAUTION:

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

*Final redictor confined and on sing oil full. Space tire, isola, band tools and mote in decignated notice.

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

- After installing the removed suspension parts, check the front wheel alignment.
- Do not jack up the vehicle by the transverse link .

Observe the following precautions when disassembling and servicing drive shaft.

- Perform work in a location which is as dust-free as possible.
- Before disassembling and servicing, clean the outside of parts.
- Prevention of the entry of foreign objects must be taken into account during disassembly of the service location.
- Disassembled parts must be carefully reassembled in the correct order. If work is interrupted, a clean cover must be placed over parts.
- Paper shop cloths must be used. Fabric shop cloths must not be used because of the danger of lint adhering to parts.
- Disassembled parts (except for rubber parts) should be cleaned with kerosene which shall be removed by blowing with air or wiping with paper shop cloths.

PREPARATION

PREPARATION PFP:00002 Α **Special Service Tools** EDS000WD The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here. В Tool number Description (Kent-Moore No.) Tool name HT72520000 Removing outer tie-rod end and lower ball (J25730-A) joint Ball joint remover FAX NT146 KV38106700 Installing drive shaft (J34296) LH: KV38106700 (J34296) KV38106800 RH: KV38106800 (J34297) (J34297) Differential side oil seal protector NT147 KV40107500 Removing drive shaft Drive shaft attachment Н ZZA1230D **Commercial Service Tools** EDS000WE Tool name Description Power tool Loosening bolts and nuts PBIC0190E

NOISE, VIBRATION, AND HARSHNESS (NVH) TROUBLESHOOTING

NOISE, VIBRATION, AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart

PFP:00003

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

Reference page		ı	FAX-13, FAX-19	FAX-9, FAX-10	FAX-5	1	EAX-5	RAX-4, "NVH Troubleshooting Chart" (RAX), RSU-4, "NVH Troubleshooting Chart" (RSU)	Refer to FRONT AXLE in this chart.	WT-3, "NVH Troubleshooting Chart"	WT-3, "NVH Troubleshooting Chart"	Refer to DRIVE SHAFT in this chart.	BR-5, "NVH Troubleshooting Chart"	PS-5, "NVH Troubleshooting Chart"	
Possible cause and SUSPECTED PARTS		Excessive joint angle	Joint sliding resistance	Imbalance	Improper installation, looseness	Parts interference	Wheel bearing damage	REAR AXLE AND REAR SUSPENSION	FRONT AXLE	TIRES	ROAD WHEEL	DRIVE SHAFT	BRAKES	STEERING	
	DRIVE	Noise	×	×					×	×	×	×		×	×
	SHAFT	Shake	×		×				×	×	×	×		×	×
	FRONT AXLE	Noise				×	×		×		×	×	×	×	×
		Shake				×	×		×		×	×	×	×	×
		Vibration				×	×		×		×		×		×
		Shimmy				×	×		×		×	×		×	×
		Shudder				×			×		×	×		×	×
		Poor quality ride or handling				×	×	×	×		×	×			

 $[\]times$: Applicable

FRONT WHEEL HUB AND KNUCKLE

FRONT WHEEL HUB AND KNUCKLE

PFP:40202

On-Vehicle Inspection and Service

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Make sure the mounting conditions (looseness, backlash) of each component and component status (wear, damage) are normal.

FRONT WHEEL BEARING

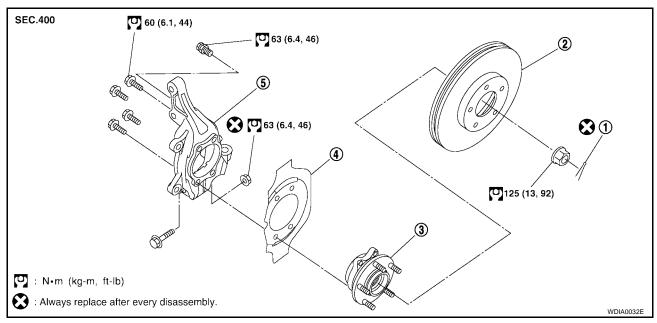
Move wheel hub in the axial direction by hand. Make sure there is no looseness of wheel bearing.

Axial end play limit : 0.05 mm (0.002 in) or less

Rotate wheel hub and make sure there is no unusual noise or other irregular conditions. If there are any irregular conditions, replace wheel hub and bearing assembly.

FAX

Removal and Installation



Cotter pin 4. Splash guard

- 2. Disc rotor
 - Steering knuckle

Wheel hub and bearing assembly

REMOVAL

- Remove wheel and tire from vehicle using power tool. Refer to WT-6, "Rotation".
- 2. Without disassembling the hydraulic lines, remove brake caliper using power tool. Reposition it aside with wire. Refer to BR-28, "REMOVAL".

NOTE:

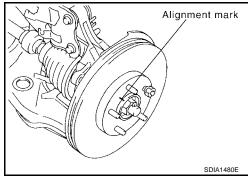
Avoid depressing brake pedal while brake caliper is removed.

- 3. Put alignment marks on disc rotor and wheel hub and bearing assembly, then remove disc rotor.
- Remove ABS sensor from steering knuckle. Refer to BRC-42, "Removal and Installation" (TCS/ABS) or BRC-95, "Removal and Installation" (VDC/TCS/ABS).

CAUTION:

Do not pull on ABS sensor harness.

- 5. Remove cotter pin, then remove lock nut from drive shaft using power tool.
- 6. Remove steering outer tie-rod cotter pin at steering knuckle, then loosen mounting nut using power tool. Refer to PS-15, "Removal and Installation".



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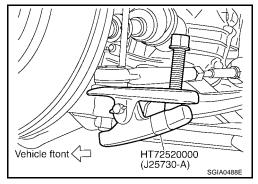
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FRONT WHEEL HUB AND KNUCKLE

7. Disconnect the outer tie-rod end from steering knuckle using Tool. Be careful not to damage ball joint boot.

CAUTION:

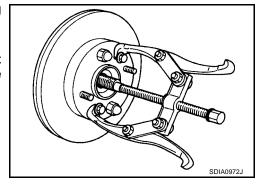
To prevent damage to threads and to prevent Tool from coming off suddenly, temporarily tighten mounting nut.



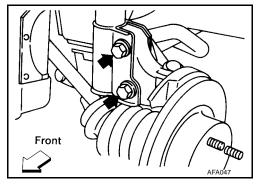
- Remove transverse link and steering knuckle pinch bolt and nut using power tool. Refer to <u>FSU-14</u>, "Removal and Installation".
- 9. Remove wheel hub and bearing assembly from drive shaft using a puller or suitable tool.

CAUTION:

- When removing wheel hub and bearing assembly, do not apply an excessive angle to drive shaft joint. Also be careful not to excessively extend slide joint.
- Support drive shaft when removing.



- 10. Remove wheel hub and bearing assembly bolts using power tool.
- 11. Remove splash guard and wheel hub and bearing assembly from steering knuckle.
- 12. Remove the lower strut bolts and nuts using power tool. Refer to FSU-6, "Components".
- 13. Remove steering knuckle from vehicle.



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INSPECTION AFTER REMOVAL

Check for deformity, cracks and damage on each part, replace if necessary.

Ball Joint Inspection

 Check for boot breakage, axial looseness, and torque of transverse link ball joint. Refer to <u>FSU-14</u>, "INSPECTION AFTER REMOVAL".

INSTALLATION

Installation is in the reverse order of removal. Note the following:

CAUTION:

Be sure to replace the differential side oil seal with a new one every time drive shaft is removed on 4 A/T models. Refer to AT-258, "Differential Side Oil Seal Replacement".

Refer to <u>FAX-5</u>, "<u>Removal and Installation</u>" for tightening torques.

CAUTION:

Revision: January 2005

Do not reuse non-reusable parts.

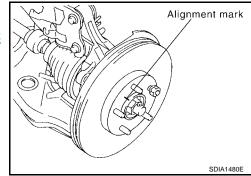
 When installing wheel hub and bearing assembly to steering knuckle, align cutout in toner ring cover with ABS sensor mounting hole in steering knuckle.

FAX-6

FRONT WHEEL HUB AND KNUCKLE

 When installing disc rotor on wheel hub and bearing assembly, align the marks.

(When not using the alignment mark, refer to <u>BR-30, "DISC ROTOR INSPECTION"</u>.)



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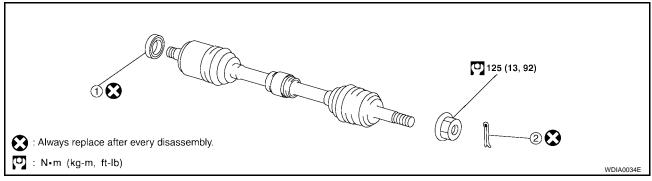
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FRONT DRIVE SHAFT

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Removal and Installation (Left Side)

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1. Differential side oil seal

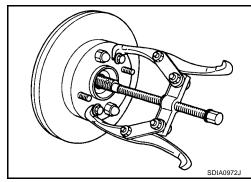
2. Cotter pin

REMOVAL

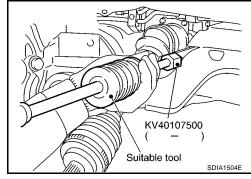
- 1. Remove wheel and tire with power tool. Refer to WT-6, "Rotation".
- 2. Remove ABS sensor from steering knuckle. Refer to <u>BRC-42, "Removal and Installation"</u> (TCS/ABS) or <u>BRC-95, "Removal and Installation"</u> (VDC/TCS/ABS).
- 3. Remove cotter pin. Then remove lock nut from drive shaft.
- 4. Remove brake hose lock plate. Then remove brake hose from strut.
- 5. Remove the lower ball joint pinch bolt using power tool, then separate lower ball joint from steering knuckle. Refer to FAX-5, "Removal and Installation".
- 6. Using a puller or suitable tool, remove drive shaft from wheel hub and bearing assembly.

CAUTION:

 When removing drive shaft, do not apply an excessive angle to drive shaft joint. Also be careful not to excessively extend slide joint.

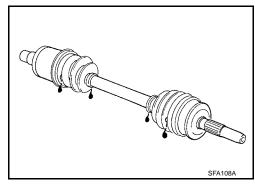


- 7. Remove drive shaft from transaxle using Tool and drive shaft puller or suitable tool.
 - Set Tool and a drive shaft puller or suitable tool between drive shaft (slide joint side) and transaxle as shown and remove drive shaft.



INSPECTION AFTER REMOVAL

- Move joint up/down, left/right, and in axial direction. Check for any rough movement or significant looseness.
- Check boot for cracks or other damage, and for grease leakage.
- If damaged, disassemble drive shaft to verify damage, and repair or replace as necessary.



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INSTALLATION

Installation is in the reverse order of removal. Note the following:

CAUTION:

Be sure to replace the differential side oil seal with a new one every time drive shaft is removed on 4 A/T models. Refer to AT-258, "Differential Side Oil Seal Replacement".

Refer to <u>FAX-8</u>, "<u>Removal and Installation (Left Side)</u>" for tightening torque.

CAUTION:

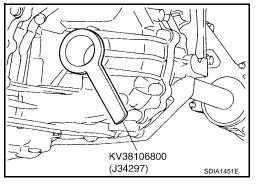
Do not reuse non-reusable parts.

- In order to prevent damage to differential side oil seal, place Tool
 onto oil seal before inserting drive shaft as shown. Slide drive
 shaft into slide joint and tap with a hammer to install securely.
- Install new circlip on drive shaft in the circular clip groove on transaxle side. Refer to <u>FAX-11</u>, "<u>Disassembly and Assembly</u> (<u>Left Side</u>)".

CAUTION:

Make sure the new circlip on the drive shaft is securely fastened.

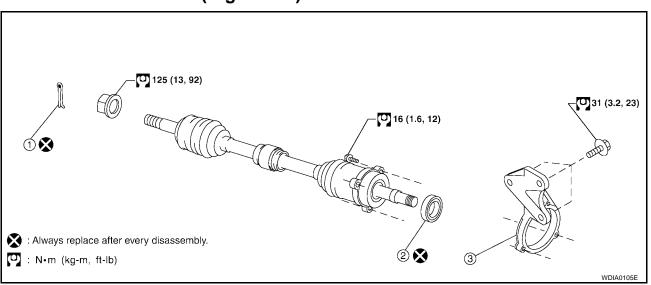
 After its insertion, try to pull the flange out of the slide joint by hand. If it pulls out, the circlip is not properly meshed with the transaxle side gear.



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Removal and Installation (Right Side)



1. Cotter pin

2. Dust shield

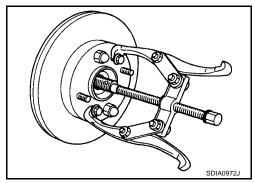
Support bearing bracket

REMOVAL

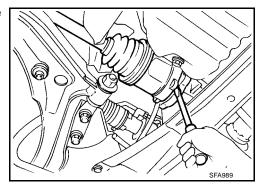
- 1. Remove wheel and tire with power tool. Refer to WT-6, "Rotation".
- 2. Remove wheel sensor from steering knuckle. Refer to <u>BRC-42, "Removal and Installation"</u> (TCS/ABS) or BRC-95, "Removal and Installation" (VDC/TCS/ABS).
- 3. Remove cotter pin. Then remove lock nut from drive shaft using power tool.
- 4. Remove brake hose lock plate. Then remove brake hose from strut.
- 5. Remove the lower ball joint pinch bolt using power tool, then separate lower ball joint from steering knuckle. Refer to FAX-5, "Removal and Installation".
- 6. Using a puller or suitable tool, remove drive shaft from wheel hub and bearing assembly.

CAUTION:

 When removing drive shaft, do not apply an excessive angle to drive shaft joint. Also be careful not to excessively extend slide joint.

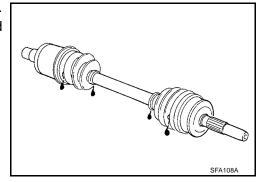


- 7. Remove support bearing bolts using power tool, and pry drive shaft from transaxle.
 - Pry off drive shaft from transaxle.



INSPECTION AFTER REMOVAL

- Move joint up/down, left/right, and in axial direction. Check for any rough movement or significant looseness.
- Check boot for cracks or other damage, and for grease leakage.
- If damaged, disassemble drive shaft to verify damage, and repair or replace as necessary.



INSTALLATION

Installation is in the reverse order of removal. Note the following:

CAUTION:

Be sure to replace the differential side oil seal with a new one every time drive shaft is removed on 4 A/T models. Refer to AT-258, "Differential Side Oil Seal Replacement".

Refer to <u>FAX-9</u>, "<u>Removal and Installation (Right Side)</u>" for tightening torque. Install in the reverse order of removal.

CAUTION:

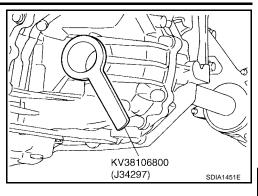
Do not reuse non-reusable parts.

- In order to prevent damage to differential side oil seal, place Tool
 onto oil seal before inserting drive shaft as shown. Slide drive
 shaft into slide joint and tap with a hammer to install securely.
- Install new circlip on drive shaft in the circular clip groove on transaxle side. Refer to <u>FAX-11</u>, "<u>Disassembly and Assembly</u> (<u>Left Side</u>)".

CAUTION:

Make sure the new circlip on the drive shaft is securely fastened

 After its insertion, try to pull the flange out of the slide joint by hand. If it pulls out, the circlip is not properly meshed with the transaxle side gear.



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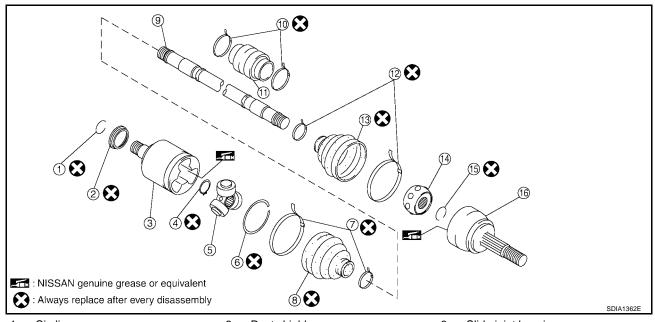
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Disassembly and Assembly (Left Side)



- 1. Circlip
- 4. Snap ring
- 7. Boot band
- 10. Damper band (5 A/T)

16. Joint sub-assembly

13. Boot

- 2. Dust shield
- 5. Spider assembly
- 8. Boot
- 11. Damper (5 A/T)
- 14. Ball cage / Steel ball / Inner race assembly
- 3. Slide joint housing
- 6. Stopper ring
- 9. Shaft
- 12. Boot band
- 15. Circlip

DISASSEMBLY

Transaxle Side

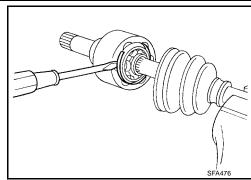
1. Mount front drive shaft in a vise.

CAUTION:

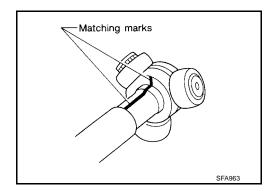
When mounting shaft in a vise, always use copper or aluminum plates between vise and shaft.

- 2. Remove boot bands and slide the boot back.
- 3. Remove circlip and dust shield from slide joint housing.
- Put matching marks on slide joint housing and shaft before separating joint assembly.

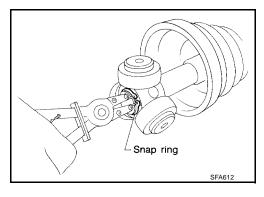
5. Remove stopper ring with a flat-bladed screwdriver, and pull out slide joint housing.



6. Put matching marks on spider assembly and shaft.



- 7. Remove snap ring, then remove spider assembly from shaft.
- 8. Remove boot from shaft.
- 9. Clean the old grease off of the slide joint assembly.



Wheel Side

Mount the front drive shaft in a vise.

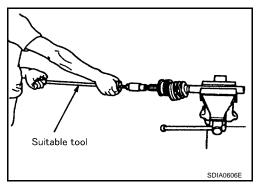
CAUTION:

When mounting shaft in a vise, always use copper or aluminum plates between vise and shaft.

- 2. Remove boot bands and slide the boot back.
- Screw a sliding hammer or suitable tool 30 mm (1.18 in) or more into threaded part of joint sub-assembly. Pull joint sub-assembly out of shaft.

CAUTION:

- Align sliding hammer or suitable tool and drive shaft then remove joint sub-assembly by pulling directly.
- If joint sub-assembly cannot be removed after five or more unsuccessful attempts, replace the entire drive shaft assembly.



- 4. Remove boot from shaft.
- 5. Remove circlip from shaft.
- 6. While rotating ball cage, clean the old grease off of the joint sub-assembly.

Damper (5 A/T Models)

Remove damper bands, then remove damper from shaft.

INSPECTION AFTER DISASSEMBLY

Shaft

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Replace shaft if there is bending, cracking, or other damage.

Joint Sub-Assembly

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- Make sure there is no rough rotation or unusual axial looseness.
- Make sure there is no foreign material inside joint sub-assembly.
- Check joint sub-assembly for compression scars, cracks or fractures.

CAUTION

С

If there are any irregular conditions of joint sub-assembly components, replace the entire joint sub-assembly.

FAX

Slide Joint Housing

- Make sure there are no compression scars, cracks or fractures or unusual wear of ball rolling surface.
- Make sure there is no damage to shaft screws.
- Make sure there is no deformation of boot installation parts.

Ball Cage

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Make sure there are no compression scars, cracks, fractures of sliding surface.

Steel Ball

G

Make sure there are no compression scars, cracks, fractures or unusual wear.

Inner Race

Check ball sliding surface for compression scars, cracks or fractures.

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Make sure there is no damage to serrated part.

CAUTION

If there are any irregular conditions in the component, replace with a new set of joint sub-assembly, ball cage, steel ball and inner race.

Damper (5 A/T Models)

Check damper for cracks or wear. Install damper with new damper bands.

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ASSEMBLY

Transaxle Side

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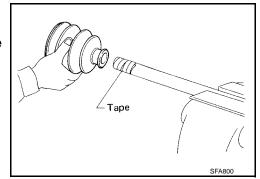
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1. Install new boot and new small boot band on shaft.

CAUTION:

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

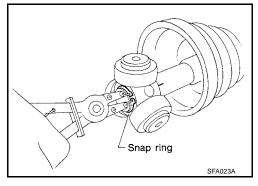
2. Remove protective tape wound around serrated part of shaft.



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

- 4. Install new snap ring.
- 5. Pack drive shaft with specified amount of new grease (Genuine NISSAN Grease or equivalent).

Grease amount : 134 - 144 g (4.73 - 5.08 oz)



Prevent boot deformation

- 6. Install new stopper ring to housing of slide joint assembly.
- 7. After installation, pull shaft to check engagement between slide joint assembly and stopper ring.
- 8. Install boot securely into grooves (indicated by * marks) shown in the figure.

CAUTION:

If there is grease on boot mounting surfaces (indicated by * marks) of shaft and housing, boot may come off. Clean all grease from surfaces.

9. Make sure boot installation length "L" is the length specified below. Insert a flat-bladed screwdriver or similar tool into smaller side of boot. Bleed air from boot to prevent boot deformation.

Boot installation length "L"

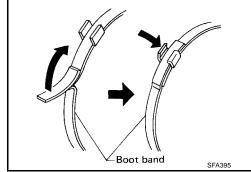
5 A/T models : 167.9 mm (6.61 in) 4 A/T models : 191.9 mm (7.56 in)



- Boot may break if boot installation length is less than standard value.
- Be careful that screwdriver tip does not contact inside surface of boot.
- 10. Secure big and small ends of boot with new boot bands as shown.

CAUTION:

Discard old boot bands and replace with new ones.

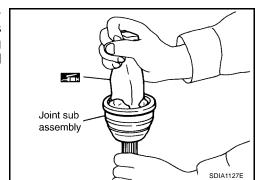


Flat-bladed screwdriver or similar tool

- 11. Install new dust shield to slide joint housing.
- 12. After installing housing and shaft, make sure boot position is correct. If boot position is not correct, remove old boot bands then reposition the boot and secure with new boot bands.

Wheel Side

Insert the amount of grease (Genuine NISSAN Grease or equivalent) into joint sub-assembly serration hole until grease begins to ooze from ball groove and serration hole. After inserting grease, use a shop cloth to wipe off old grease that has oozed out.

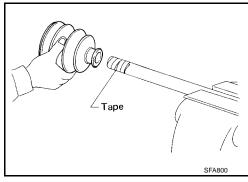


2. Cover serrated part of shaft with tape. Install new boot band and boot to shaft. Be careful not to damage boot.

CAUTION:

Discard old boot band and boot; replace with new one.

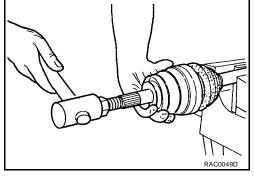
3. Remove protective tape wound around serrated part of shaft.



4. Attach new circlip to shaft. The circlip must fit securely into shaft groove. Attach nut to joint sub-assembly.
Use a wooden hammer to press-fit.

CAUTION:

Discard old circlip and replace with new one.



Insert the amount of new grease (Genuine NISSAN Grease or equivalent) listed below into housing from large end of boot.

Grease amount : 170 – 190 g (6.00 – 6.70 oz)

6. Install boot securely into grooves (indicated by * marks) shown in the figure.

CAUTION:

If there is grease on boot mounting surfaces (indicated by * marks) of shaft and housing, boot may come off. Remove all grease from surfaces.

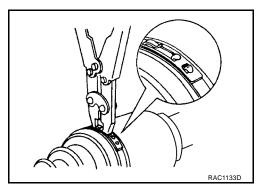
 Make sure boot installation length "L" is the specified length indicated below. Insert a flat-bladed screwdriver or similar tool into smaller side of boot. Bleed air from boot to prevent boot deformation.



Prevent boot deformation ### Preven

CAUTION:

- Boot may break if boot installation length is less than standard value.
- Be careful that screwdriver tip does not contact inside surface of boot.
- 8. Install new larger and smaller boot bands securely with a suitable tool.



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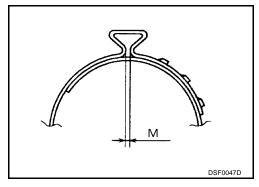
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CAUTION:

Secure boot band so that dimension "M" meets specification as shown.

Dimension "M" : 1.0 - 4.0 mm (0.039 - 0.157 in)



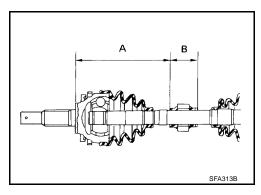
9. After installing housing and shaft, rotate boot to check whether or not the actual position is correct. If boot position is not correct, remove old boot bands then reposition the boot and secure with new boot bands.

Damper (5 A/T Models)

- 1. Use new damper bands for installation.
- 2. Install damper from stationary-joint side while holding it securely.

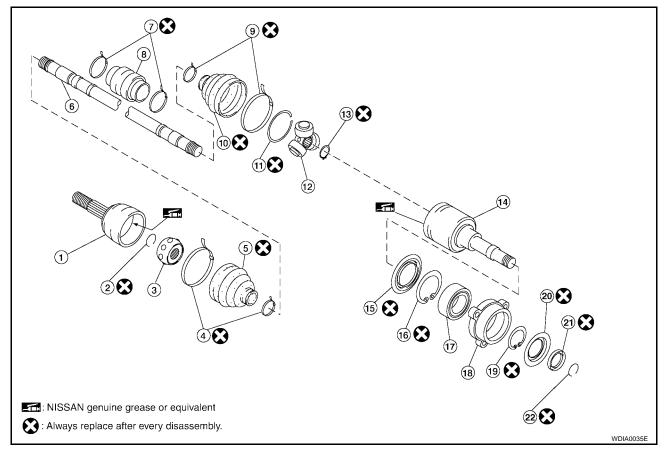
"A" : 205 – 215 mm (8.07 – 8.46 in)

"B" : 70 mm (2.76 in)



Disassembly and Assembly (Right Side)

FDS000V



1.	Joint	sub-asser	nbiy

- 4. Boot bands
- 7. Damper bands (5 A/T)
- 10. Boot
- 13. Snap ring
- 16. Snap ring
- 19. Snap ring
- 22. Circlip

- 2. Circlip
- 5. Boot
- 8. Damper (5 A/T)
- 11. Stopper ring
- 14. Slide joint housing
- 17. Bearing
- 20. Dust shield

- 3. Ball cage / Steel ball / Inner race assembly
- 6. Shaft
- Boot band
- 12 Spider assembly
- 15. Dust cover
- 18. Bracket
- 21. Dust shield

DISASSEMBLY

Transaxle Side

1. Press shaft in a vise.

CAUTION:

When retaining shaft in a vise, always use copper or aluminum plates between vise and shaft.

- 2. Remove circlip and dust shield from slide joint housing.
- 3. Remove boot bands and slide the boots back.
- 4. Put matching marks on slide joint housing and shaft before separating slide joint housing.

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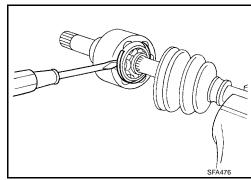
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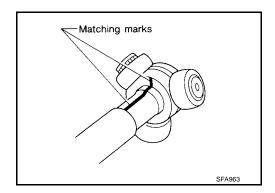
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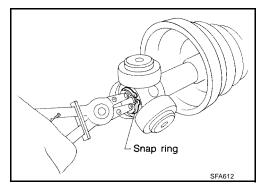
5. Remove stopper ring with a flat-bladed screwdriver, and pull out slide joint housing.



Put matching marks on spider assembly and shaft.



- 7. Remove snap ring, then remove spider assembly from shaft.
- 8. Remove boot from shaft.
- 9. Clean old grease off of the slide joint housing.



Wheel Side

Mount the front drive shaft in a vise.

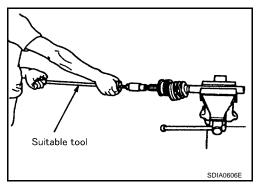
CAUTION:

When mounting shaft in a vise, always use copper or aluminum plates between vise and shaft.

- 2. Remove boot bands and slide the boot back.
- Screw a sliding hammer or suitable tool 30 mm (1.18 in) or more into threaded part of joint sub-assembly. Pull joint sub-assembly out of shaft.

CAUTION:

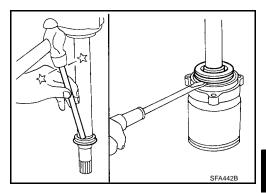
- Align sliding hammer or suitable tool and drive shaft then remove joint sub-assembly by pulling directly.
- If joint sub-assembly cannot be removed after five or more unsuccessful attempts, replace the entire drive shaft assembly.



- 4. Remove boot from shaft.
- Remove circlip from shaft.
- While rotating ball cage, clean the old grease off of the joint sub-assembly.

Support Bearing

1. Remove dust shield from slide joint assembly.



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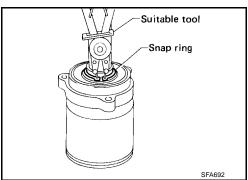
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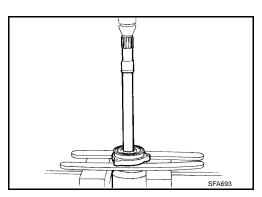
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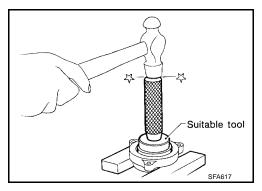
2. Remove snap ring using suitable tool.



Press support bearing assembly off slide joint assembly using suitable tool.



4. Separate support bearing from bracket using suitable tool.



Damper (5 A/T Models)

Remove damper bands, then remove damper from shaft.

INSPECTION AFTER DISASSEMBLY Shaft

Replace shaft if there is any bending, cracking, or other damage.

Joint Sub-assembly

- Make sure there is no rough rotation or unusual axial looseness.
- Make sure there is no foreign material inside joint sub-assembly.

Check joint sub-assembly for compression scars, cracks or fractures.

CAUTION:

If there are any irregular conditions of joint sub-assembly components, replace the entire joint sub-assembly.

Sliding Joint Housing and Spider Assembly

If roller surface of spider assembly has scratches or wear, replace housing and spider assembly.

NOTE:

Housing and spider assembly are components which are used as a set.

Support Bearing

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

Damper (5 A/T Models)

Check damper for cracks or wear. Install damper with new damper bands.

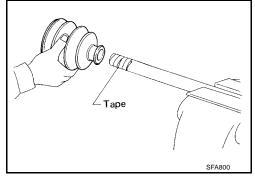
ASSEMBLY

Transaxle Side

1. Cover serrated part of shaft with tape. Install new boot and boot band onto shaft. Be careful not to damage boot.

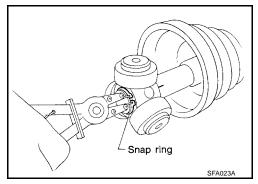
CAUTION:

- Discard old boot and boot band; replace with new ones.
- 2. Remove protective tape wound around serrated part of shaft.



- 3. Install spider assembly securely, making sure the matching marks which were made during disassembly are properly aligned.
- 4. Install new snap ring.
- 5. Pack drive shaft with specified amount of grease (Genuine NIS-SAN Grease or equivalent).

Grease amount : 134 - 144 g (4.73 - 5.08 oz)



- 6. Install new stopper ring to slide joint assembly.
- 7. After installation, pull shaft to check engagement between slide joint assembly and stopper ring.
- 8. Install boot securely into grooves (indicated by * marks) shown in the figure.

CAUTION:

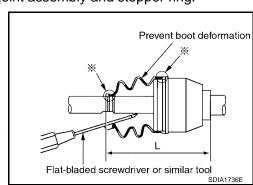
If there is grease on boot mounting surfaces (indicated by * marks) of shaft and housing, boot may come off. Remove all grease from surfaces.

9. Make sure boot installation length "L" is the length indicated below. Insert a flat-bladed screwdriver or similar tool into smaller side of boot. Bleed air from boot to prevent boot deformation.

Boot installation length "L" : 189.30 mm (7.45 in)

CAUTION:

Boot may break if boot installation length is less than standard value.

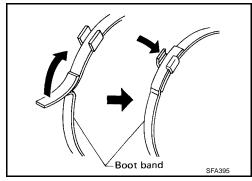


- Be careful that screwdriver tip does not contact inside surface of boot.
- Secure big and small ends of boot with new boot bands as shown.

CAUTION:

Discard old boot bands; replace with new ones.

- 11. Install new dust shield to slide joint housing.
- 12. After installing housing and shaft, rotate boot to check whether or not the actual position is correct. If boot position is not correct, remove old boot bands then reposition the boot and secure with new boot bands.



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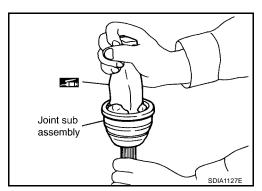
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Wheel Side

Insert the amount of grease (Genuine NISSAN Grease or equivalent) into joint sub-assembly serration hole until grease begins to ooze from ball groove and serration hole. After inserting grease, use a shop cloth to wipe off old grease that has oozed out.

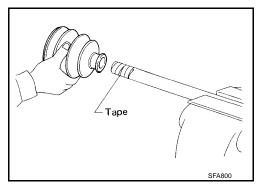


2. Cover serrated part of shaft with tape. Install new boot and boot band onto shaft. Be careful not to damage boot.

CAUTION:

Discard old boot and boot band; replace with new ones.

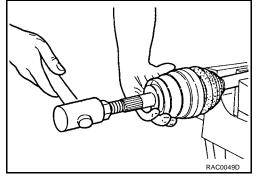
3. Remove protective tape wound around serrated part of shaft.



 Attach new circlip to shaft. The circlip must fit securely into shaft groove. Attach nut to joint sub-assembly. Use a wooden hammer to press-fit.

CAUTION:

Discard old circlip; replace with new ones.



5. Insert the amount of new grease (Genuine NISSAN Grease or equivalent) listed below into housing from large end of boot.

Grease amount : 170 - 190 g (6.00 - 6.70 oz)

6. Install boot securely into grooves (indicated by * marks) shown in the figure.

CAUTION:

If there is grease on boot mounting surfaces (indicated by * marks) of shaft and housing, boot may come off. Remove all grease from surfaces.

7. Make sure boot installation length "L" is the specified length. Insert a flat-bladed screwdriver or similar tool into smaller side of boot. Bleed air from boot to prevent boot deformation.

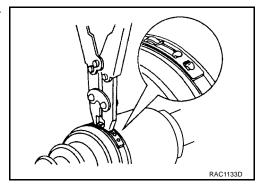
Boot installation length "L" : 163 mm (6.42 in)

Flat-bladed screwdriver or similar tool

Prevent boot deformation

CAUTION:

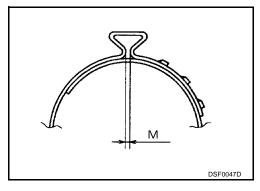
- Boot may break if boot installation length is less than standard value.
- Be careful that screwdriver tip does not contact inside surface of boot.
- 8. Install new larger and smaller boot bands securely with a suitable tool.



CAUTION:

Secure boot band so that dimension "M" meets specification as shown.

Dimension "M" : 1.0 - 4.0 mm (0.039 - 0.157 in)



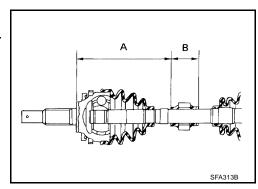
9. After installing housing and shaft, rotate boot to check whether or not the actual position is correct. If boot position is not correct, remove old boot bands then reposition the boot and secure with new boot bands.

Damper (5 A/T Models)

- 1. Use new damper bands for installation.
- 2. Install damper from stationary-joint side while holding it securely.

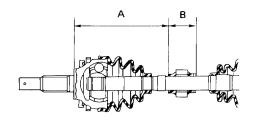
"A" : 205 – 215 mm (8.07 – 8.46 in)

"B" : 70 mm (2.76 in)



SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS) PFP:00030 **Wheel Bearing** EDS000WM Axial end play limit 0.05 mm (0.002 in) or less **Drive Shaft** EDS000WN Wheel side Transaxle side Joint type LH RH LH RHGrease quantity 170 - 190 g (6.00 - 6.70 oz) 134 - 144 g (4.73 - 5.08 oz) 167.9 mm (6.61 in) (5 A/T models) FAX Boots installed length 163 mm (6.42 in) 189.30 (7.45 in) 191.9 mm (7.56 in) (4 A/T models)



Damper

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"A"	205 - 215 mm (8.07 -8.46 in)
"B"	70 mm (2.76 in)

FAX-23 Revision: January 2005 2004 Quest

SERVICE DATA AND SPECIFICATIONS (SDS)