

SECTION

FAX

FRONT AXLE

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FAX

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# PRECAUTIONS

## PRECAUTIONS

PFP:00001

### Caution

EDS0015H

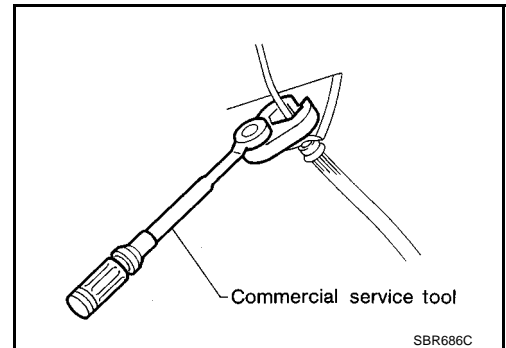
Observe the following precautions when disassembling and servicing drive shaft.

- The joint of drive shaft cannot be disassembled. Do not attempt to disassemble it.
- Perform work in a location which is as dust-free and dirt-free as possible.
- Before disassembling and servicing, clean the outside of parts.
- The disassembly and service location must be clean. Care must be taken to prevent parts from becoming dirty and to prevent the entry of foreign objects.
- 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.

### Precautions for Brake System

EDS0015I

- 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 or installing brake tubes.
- After installing removed suspension parts, check wheel alignment and adjust if necessary.
- Always torque brake lines when installing.



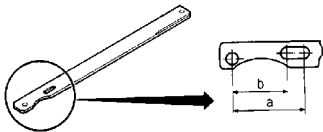
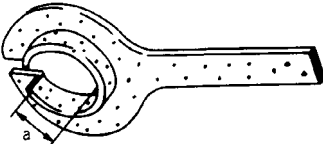
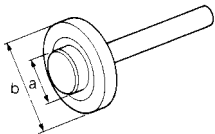
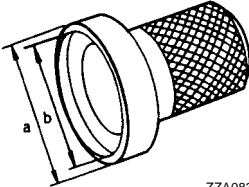
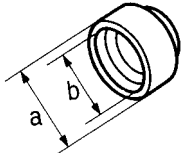
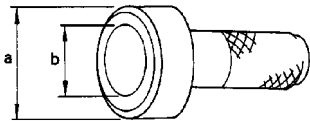
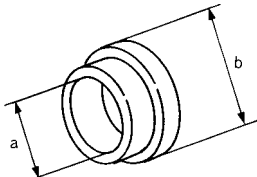
# PREPARATION

## PREPARATION

PFP:00002

## Special Service Tools

EDS0015J

Tool name Tool number		Description
Hub lock nuts wrench KV40104000	 ZZA0802D	Installing the drive shaft Installing and removing hub lock nut
Protector KV38107800 a: 29 mm (1.14 in) dia. KV38105500 a: 40 mm (1.57 in) dia.	 ZZA0835D	Installing the drive shaft
Drift ST17130000 a: 32 mm (1.26 in) dia. b: 60 mm (1.57 in) dia.	 ZZA0836D	Disassembling support bearings
Drift ST35271000 a: 72 mm (2.83 in) dia. b: 63 mm (2.48 in) dia.	 ZZA0837D	Assembling support bearings Installing wheel bearings
Drift ST33252000 a: 82 mm (3.23 in) dia. b: 60 mm (2.36 in) dia.	 ZZA0838D	Assembling support bearings
Drift KV38100500 a: 80 mm (3.15 in) dia. b: 60 mm (2.36 in) dia.	 ZZA0701D	Installing ABS sensor rotors
Collar KV40101840 a: 67 mm (2.64 in) dia. b: 85 mm (3.35 in) dia.	 ZZA1113D	Installing ABS sensor rotors

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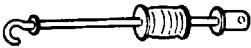
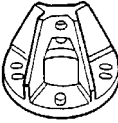
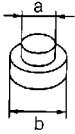
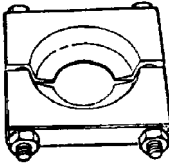
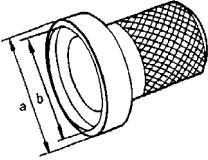
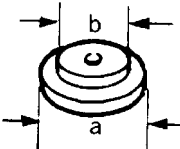
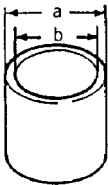
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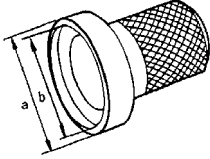
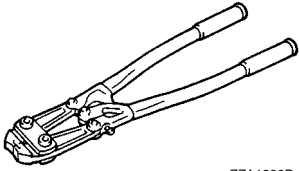
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# PREPARATION

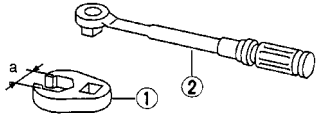
Tool name Tool number	Description
Sliding hammer ST36230000  ZZA0803D	Removing wheel hubs
Attachment KV40104100  ZZA0804D	Removing wheel hubs
Drift ST33061000 a: 28.5 mm (1.122 in) dia. b: 38.0 mm (1.50 in) dia.  ZZA0969D	Removing inner race on outer side of wheel bearings
Bearing replacer ST30031000  ZZA0700D	Removing inner race on outer side of wheel bearings
Drift KV40100621 a: 76 mm (2.99 in) dia. b: 69 mm (2.72 in) dia.  ZZA0814D	Installing wheel bearings
Drift ST30613000 a: 72 mm (2.83 in) dia. b: 48 mm (1.89 in) dia.  ZZA0830D	Installing and removing wheel bearing
Drift ST27863000 a: 75 mm (2.95 in) dia. b: 62 mm (2.44 in) dia.  ZZA0832D	Installing and removing wheel bearing

# PREPARATION

Tool name Tool number	Description	
Drift ST33400001 a: 72 mm (2.83 in) dia. b: 63 mm (2.48 in) dia.	 ZZA0814D	Installing wheel hub   C
Boot band tool KV40107300	 ZZA1229D	Installing boot bands   <b>FAX</b> E

## Commercial Service Tools

EDS0015K

Tool name	Description	
1. Flare nut crowfoot 2. Torque wrench a: 10 mm (0.39 in)	 S-NT360	Removing and installing brake piping   I   J   K   L   M

# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

## NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

PFP:00003

### NVH Troubleshooting Chart

EDS0015L

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

Reference page			Refer to FAX-7, "FRONT WHEEL HUB AND KNUCKLE"	—	Refer to FAX-7, "FRONT WHEEL HUB AND KNUCKLE"	NVH in WT section.	NVH in WT section.	NVH in PS section.
Possible cause and SUSPECTED PARTS			Improper installation, looseness	Parts interference	Wheel bearing damage	TIRES	ROAD WHEEL	STEERING
Symptom	FRONT AXLE	Noise	×	×		×	×	×
		Shake	×	×		×	×	×
		Vibration	×	×		×		×
		Shimmy	×	×		×	×	×
		Judder	×			×	×	×
		Poor quality ride or handling	×	×	×	×	×	

×: Applicable

# FRONT WHEEL HUB AND KNUCKLE

## FRONT WHEEL HUB AND KNUCKLE

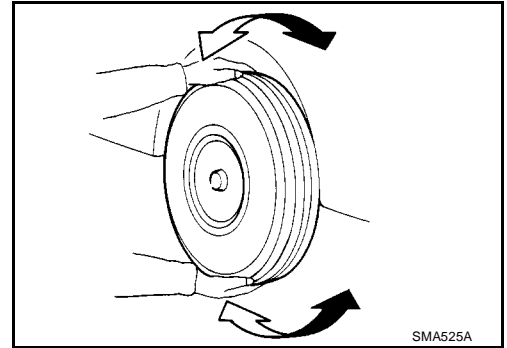
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### On-Vehicle Inspection

EDS0015M

Inspect to check that there is no excessive play, cracking, wear, or other damage to front axle.

- Turn front wheels (left/right) and check the play.
- Check that no nails or other foreign objects are embedded.
- Retighten all axle nuts and bolts to the specified torque.



### FRONT WHEEL BEARINGS

With the vehicle raised, inspect the following.

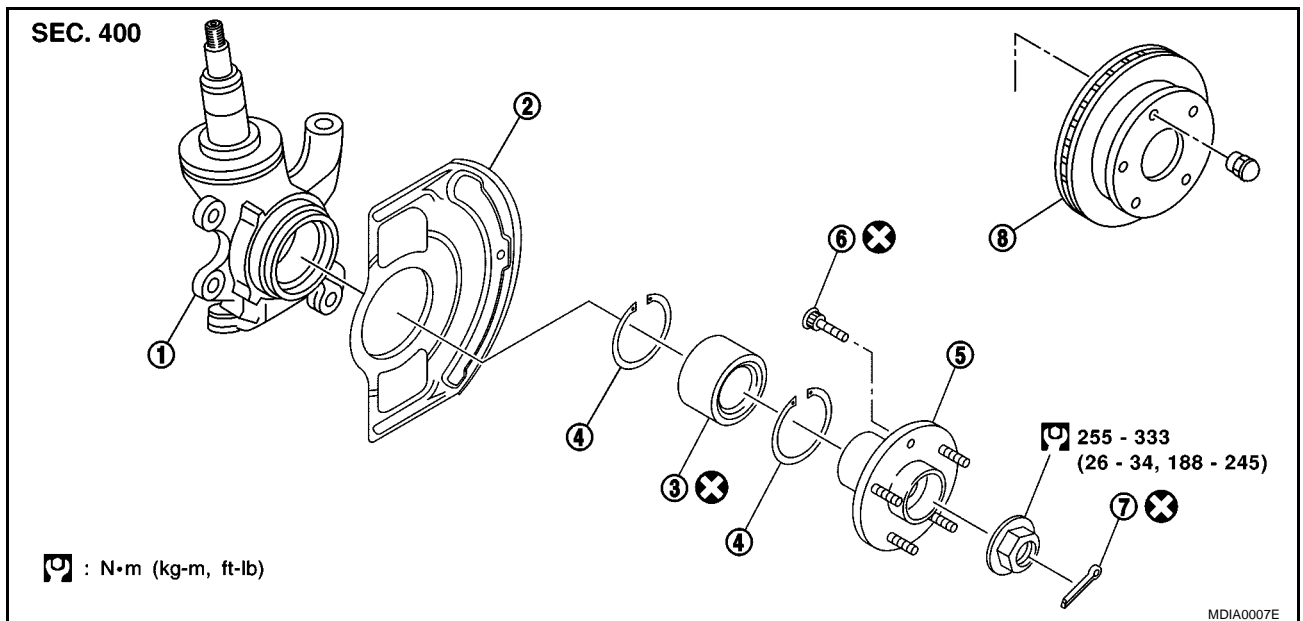
- Move wheel hub in the axial direction by hand. Check that there is no looseness of front wheel bearings.

**Axial end play : 0.045 - 0.065 mm (0.00177 - 0.00256 in)**

- Rotate wheel hub and check that there is no unusual noise or other irregular conditions. If there are any irregular conditions, replace the wheel bearing.

### Removal and Installation

EDS0015N



- |                     |                 |                           |
|---------------------|-----------------|---------------------------|
| 1. Steering knuckle | 2. Splash guard | 3. Wheel bearing assembly |
| 4. Snap ring        | 5. Wheel hub    | 6. Hub bolt               |
| 7. Cotter pin       | 8. Disc rotor   |                           |

### REMOVAL

1. Remove tire. Remove brake hose lock plate from strut.
2. Remove brake caliper from steering knuckle. Hang it in a place where it will not interfere with work.

#### CAUTION:

**Avoid depressing the brake pedal with brake caliper removed.**

3. Remove ABS wheel speed sensor from steering knuckle.

#### CAUTION:

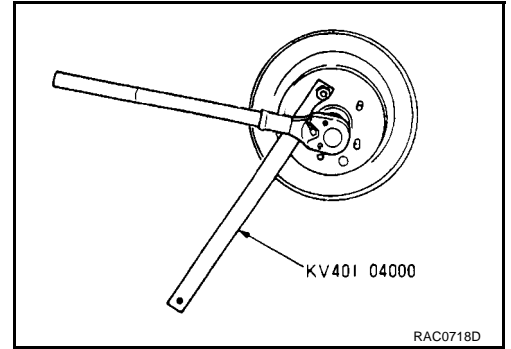
**Do not pull on ABS wheel speed sensor harness.**

## FRONT WHEEL HUB AND KNUCKLE

4. Remove cotter pin. Use a hub lock nut wrench to remove lock nuts from drive shaft.
5. Remove disc rotor from wheel hub.
6. Remove cotter pin. Use a ball joint remover to remove tie rod from steering knuckle.

### CAUTION:

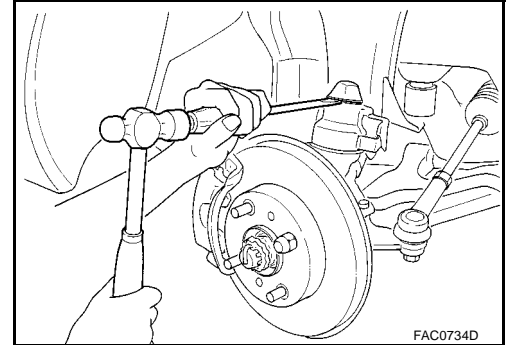
**When using a ball joint remover, install nuts temporarily.**



7. Remove kingpin cap using flat-bladed screwdriver or similar tool.
8. Remove joint lock nut and washer between steering knuckle and upper link.  
Remove steering knuckle from upper link.
9. Remove steering knuckle from strut.
10. Remove drive shaft from steering knuckle.
11. Remove cotter pin. Use a ball joint remover to remove transverse link from steering knuckle.

### CAUTION:

**When using a ball joint remover, install nuts temporarily.**



## INSTALLATION

For tightening torque and other information, refer to the component parts drawing. For installation, follow removal procedure in reverse order.

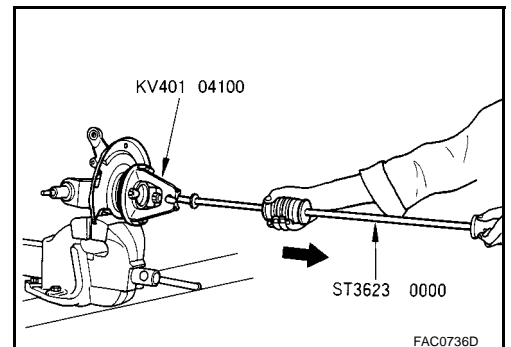
## Disassembly and Assembly

EDS00150

1. Set steering knuckle on bench vise at point where strut is attached. Use a sliding hammer and attachment to remove wheel hub from steering knuckle.

### CAUTION:

**When placing onto bench vise, be careful not to damage strut mounting surface of steering knuckle. Use an aluminum plate or another suitable tool.**

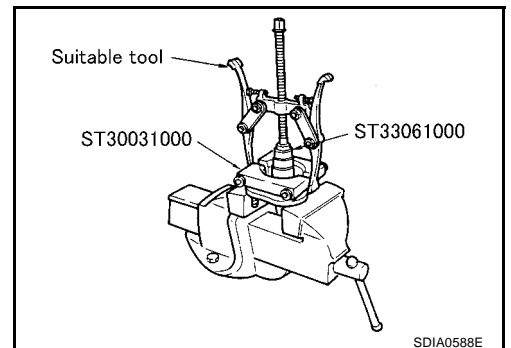


2. As shown in the figure, use a puller, drift, and bearing replacer to remove outer side inner race of wheel bearing from wheel hub.
3. Use a flat-bladed screwdriver or similar tool to remove snap ring.

### CAUTION:

**Be careful not to scratch the steering knuckle.**

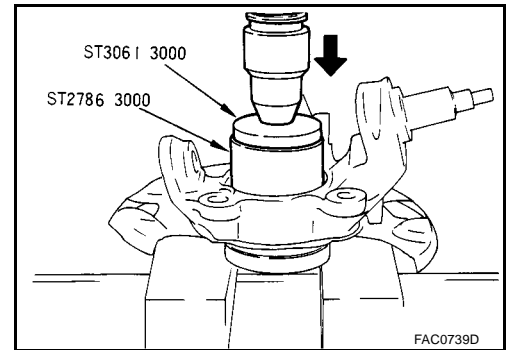
4. Fix steering knuckle to bench vise. Use a flat-bladed screwdriver and hammer to remove splash guard from steering knuckle.





# FRONT WHEEL HUB AND KNUCKLE

5. Use a drift and a press to remove wheel bearings.



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FAX

## INSPECTION AFTER DISASSEMBLY

### Wheel Hub

- Check wheel bearings for damage, seizure, and corrosion. Also check wheel hubs for cracks (using a die test or other method). Replace if any irregular conditions are found.

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### Steering Knuckle

- Check steering knuckle for deformation, cracks, and other damage. Replace if any irregular conditions are found.

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### Snap Ring

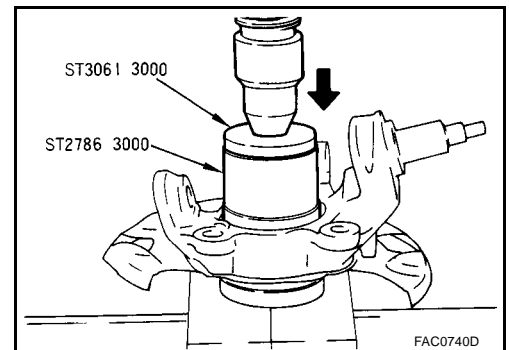
- Check snap ring for wear or other damage. Replace if any irregular conditions are found.

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## ASSEMBLY

1. Use a drift to install splash guard onto steering knuckle.

**CAUTION:**  
Discard the old splash guard; replace with a new one.



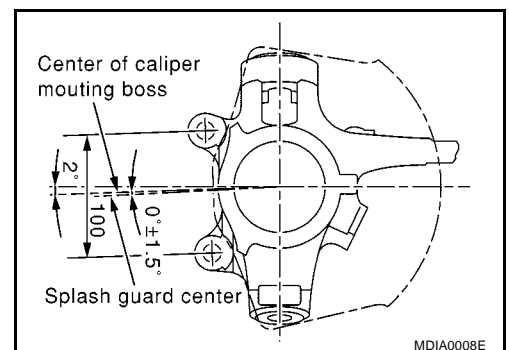
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- Install splash guard in position shown in the figure.



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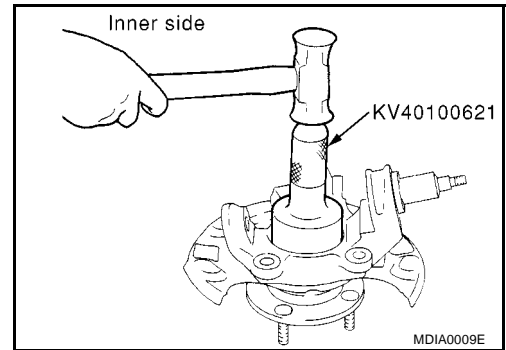
## FRONT WHEEL HUB AND KNUCKLE

2. Use a drift and a press to press-fit wheel bearing onto steering knuckle.

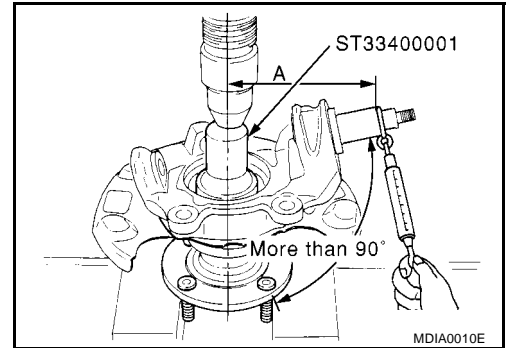
**CAUTION:**

**Discard the old wheel bearing; replace with a new one.**

3. Install snap ring onto steering knuckle.



4. Use a drift and a press to install wheel hub.
5. As shown in the figure, apply a load of 34,325 to 49,035 N (3,500 to 5,000 kg, 7,718 to 11,025 lb). Rotate in forward and reverse directions 10 times each to ensure a good fit.



6. At a rotation speed of 8 to 12 rpm, place a spring balance at the point where strut is joined (upper-side bolt hole). Measure rotation torque.

**Rotation torque : 1.645 N·m (0.168 kg-m, 15 in-lb) or less**

**Spring balance reading : 10.3 N (1.05 kg, 2.3 lb) or less**

**NOTE:**

If a load of 49,030 N (5,000 kg, 11,025 lb) cannot be applied, carry out the following actions.

- Assemble drive shaft and tighten wheel hub lock nuts to specified torque. Then rotate in forward and reverse direction 10 times each to ensure a good fit.
- At a rotation speed of 8 - 12 rpm, place a spring balance on hub bolt to measure torque.

**Rotation torque : 2.125 N·m (0.217 kg-m, 19 in-lb) or less**

**Spring balance reading : 37.2 N (3.8 kg, 8.4 lb) or less**

# FRONT DRIVE SHAFT

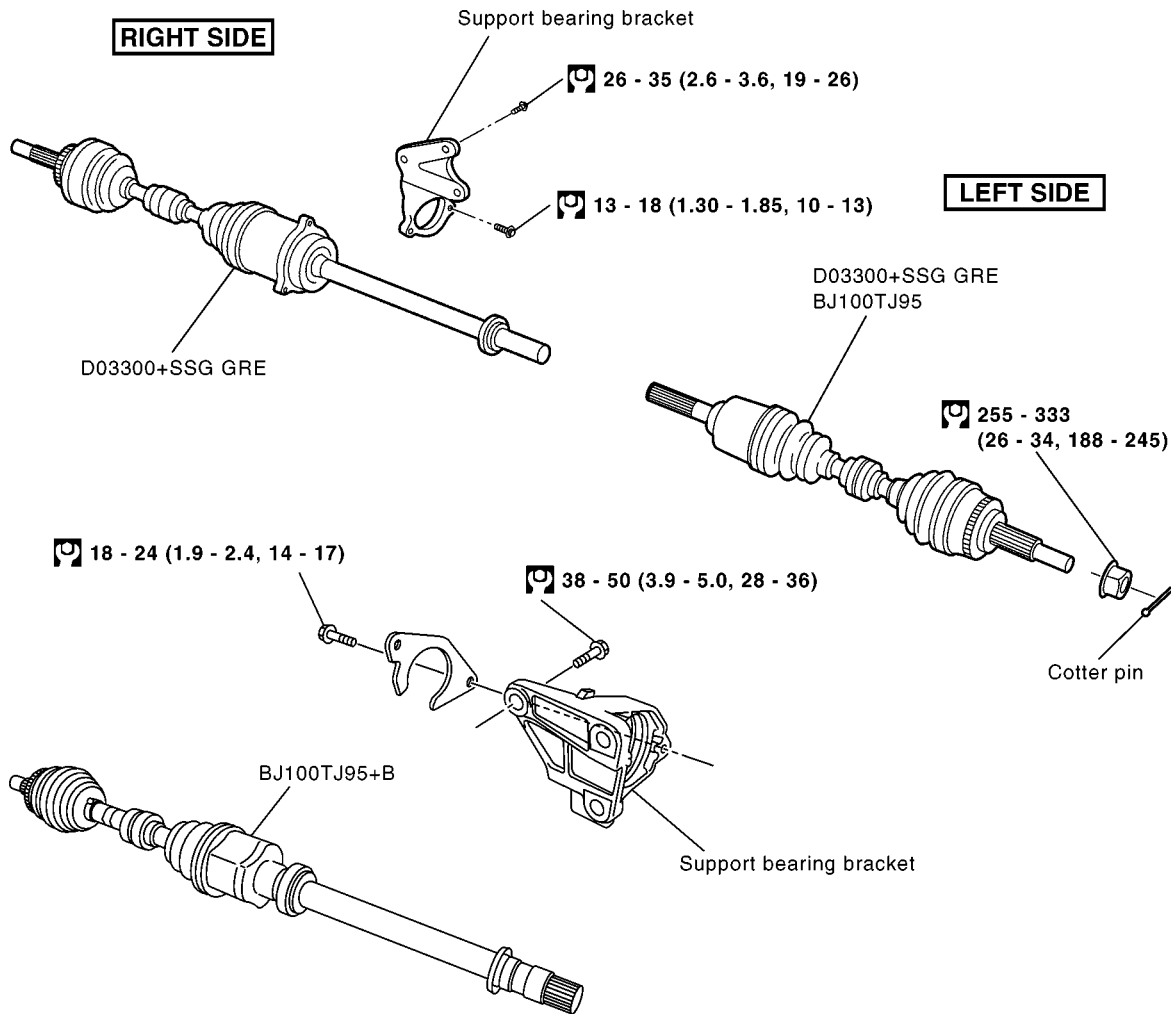
## FRONT DRIVE SHAFT

PFP:39100

## Removal and Installation

EDS0015P

SEC. 396



: N•m (kg-m, ft-lb)

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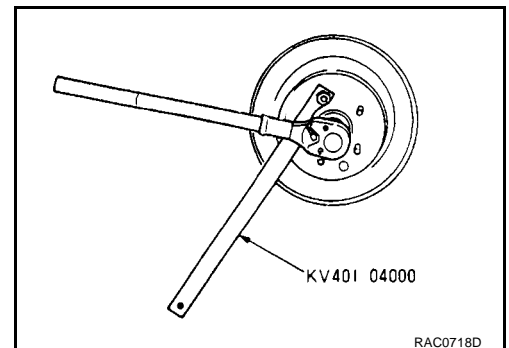
## REMOVAL

1. Remove cotter pin. Use a hub lock nut wrench to remove lock nuts.
2. Remove ABS wheel speed sensor from steering knuckle.
3. Use a pitman arm puller to remove tie rod from steering knuckle.
4. Remove lock plate from strut. Disconnect brake hose from strut.
5. Remove steering knuckle and strut installation bolt.

### CAUTION:

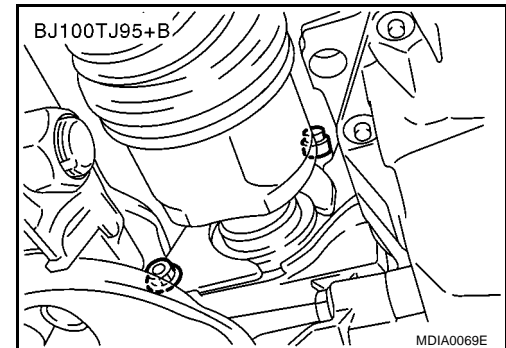
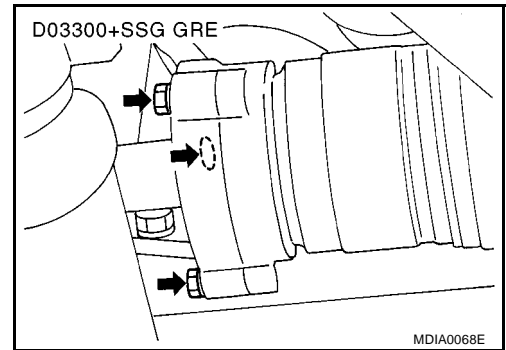
**Do not apply an excessive angle (22° or more) to drive shaft joint. Firmly support steering knuckle so that slide joint is not excessively extended.**

6. Use a puller to remove drive shaft from steering knuckle.



## FRONT DRIVE SHAFT

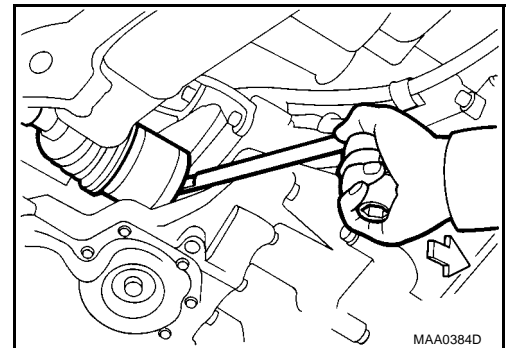
7. Remove mounting bolts for support bearing bracket and support bearing of RH drive shaft.



8. As shown in the figure, use a wheel wrench or other tool to remove drive shaft from transaxle.

### CAUTION:

- When removing drive shaft from vehicle, be careful to avoid interfering with brake hose, ABS wheel speed sensor harness, and other parts.
  - When removing drive shaft, do not apply an excessive angle (22° or more) to drive shaft joint. Also be careful not to excessively extend slide joint.
  - Do not lift drive shaft, with axle attached, by grasping counter shaft only.
  - Do not allow drive shaft, with transaxle inserted, to hang down without support for counter shaft, wheel joints, and other parts.
- When the drive shafts listed below have been removed, check that a circular clip is attached to the end.

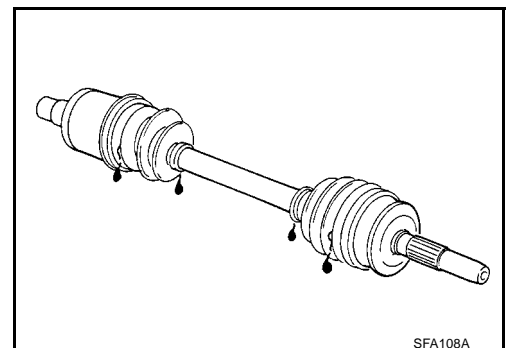


Engine type	Drive shaft with circular clip	
	Right	Left
YD22DDTi, F9Q	—	○

- Remove installation bolt from right-side drive shaft support bearing bracket. Then remove bracket from engine.

### INSPECTION AFTER REMOVAL

- Move joint in up/down, left/right, and axial directions. Check for motion that is not smooth and for significant looseness.
- Check for cracking and damage of boots, and for grease leakage.



# FRONT DRIVE SHAFT

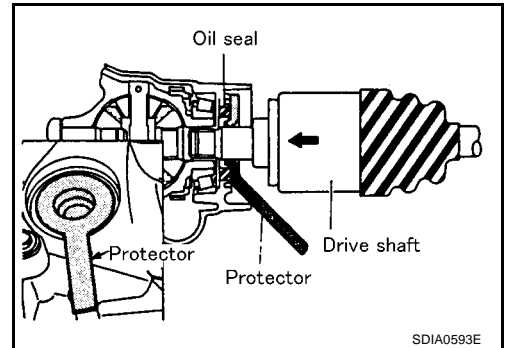
## INSTALLATION

- Install support bearing bracket onto engine and tighten installation bolts to specified torque.
1. In order to prevent damage to differential side oil seal, first fit a protector onto oil seal before inserting drive shaft. Insert drive shaft into transaxle. Be sure to properly align the serrations.

### CAUTION:

Be sure to check that circular clip is securely fastened.

Model type	Protector SST No.
RH	KV38107800
LH	KV38105500




2. For vehicles equipped with support bearing, install mounting bolts for support bearing bracket and support bearing, and tighten them to specified torque.

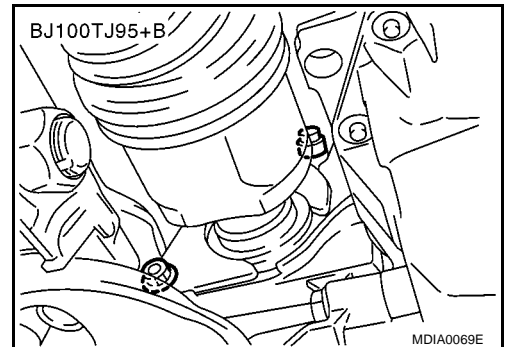
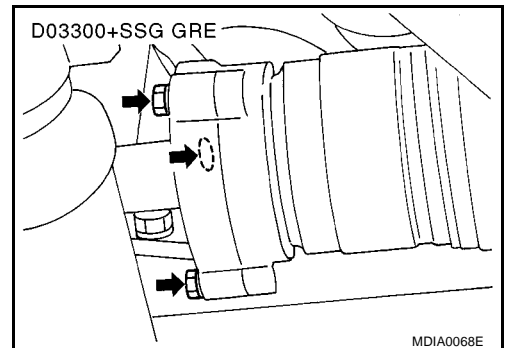
**Support bearing mounting bolt:**

**(Joint type: D03300+SSG GRE)**

 : 13 - 18 N·m (1.3 - 1.9 kg·m, 10 - 13 ft·lb)

**(Joint type: BJ100TJ95+B)**

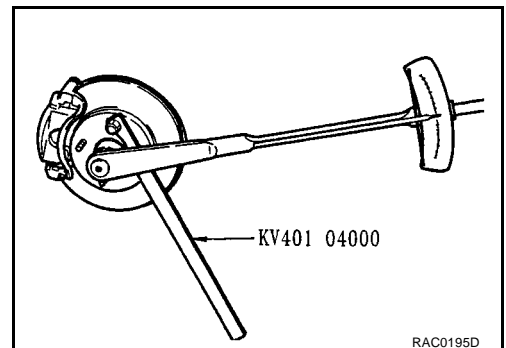
 : 18 - 24 N·m (1.9 - 2.4 kg·m, 14 - 17 ft·lb)



3. Insert drive shaft into steering knuckle. Install washers and temporarily tighten lock nuts.
4. Install installation bolt for steering knuckle and strut.
5. Use lock plate to fix brake hose to strut.
6. Install tie rod to steering knuckle.
7. Install ABS wheel speed sensor.
8. Tighten lock nuts to specified torque.
9. Install cotter pin.

### CAUTION:

Discard the old cotter pin; replace with a new one.

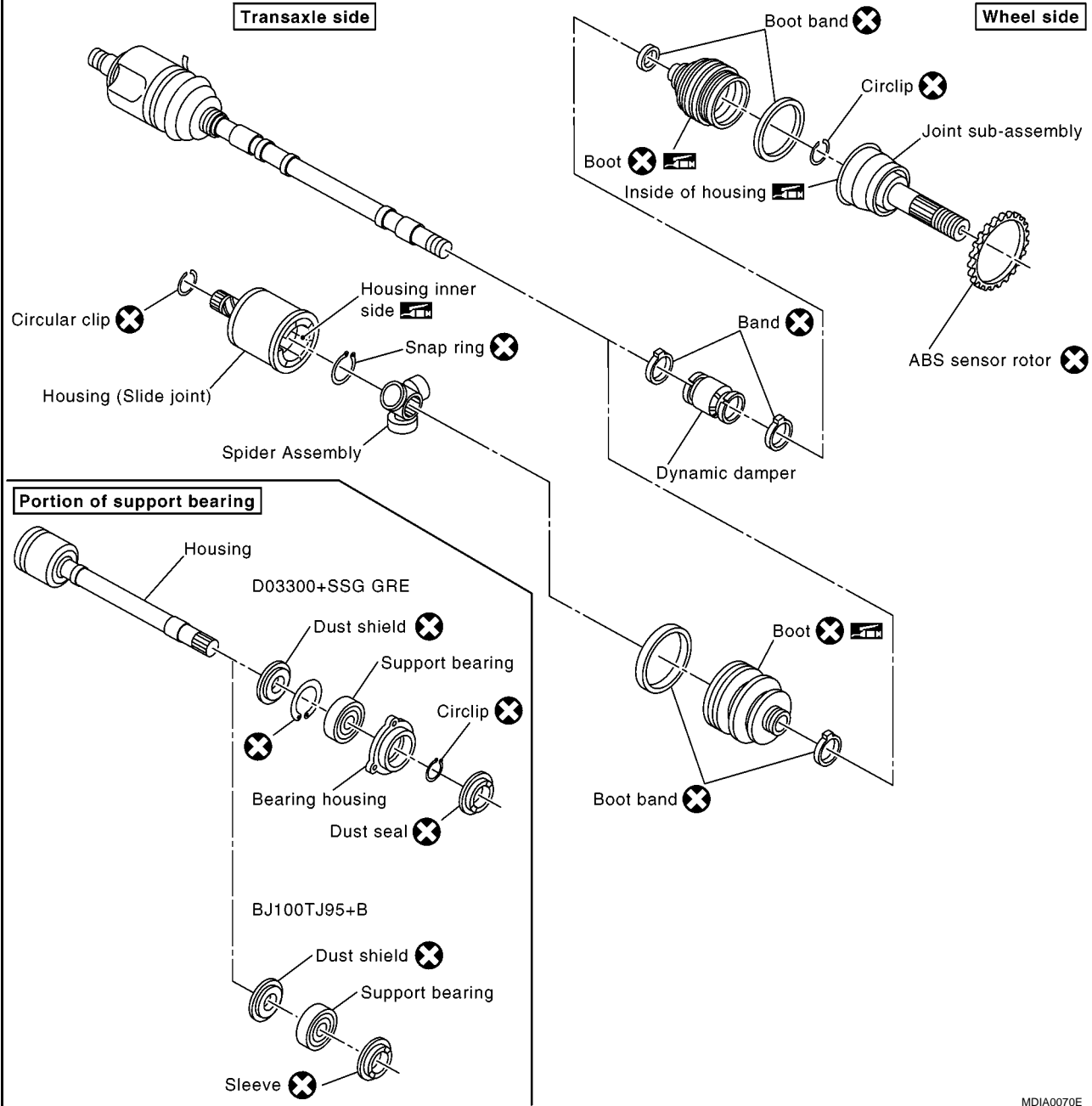


# FRONT DRIVE SHAFT

EDS0015Q

## Disassembly and Assembly

SEC. 391



MDIA0070E

### DISASSEMBLY

#### Transaxle Side

1. Remove boot band.
2. Fix shaft to bench vise.

#### CAUTION:

When fixing shaft to bench vise, be sure to protect it with a copper or aluminum sheet.

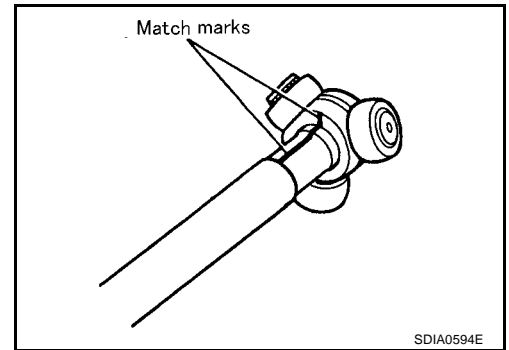
## FRONT DRIVE SHAFT

- Put match marks on shaft and spider assembly.

**CAUTION:**

**Use paint or similar substance for alignment marks. Do not scratch the surface.**

- Remove snap ring. Remove spider assembly from shaft.
- Remove boot from shaft.
- Remove dynamic damper from shaft.



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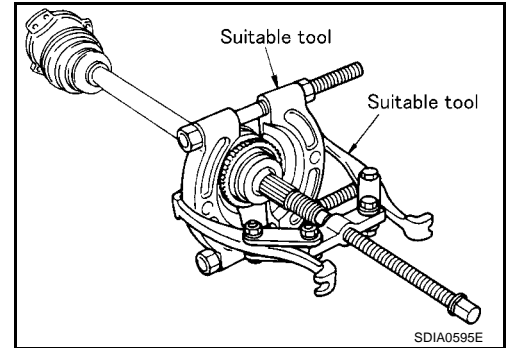
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### Wheel Side

- As shown in the figure, use a bearing replacer and puller to remove sensor rotor from drive shaft.

**CAUTION:**

**Aside from sensor rotor, this part cannot be disassembled. Do not attempt to disassemble it.**



E  
F  
G

- Secure shaft with a vise.

**CAUTION:**

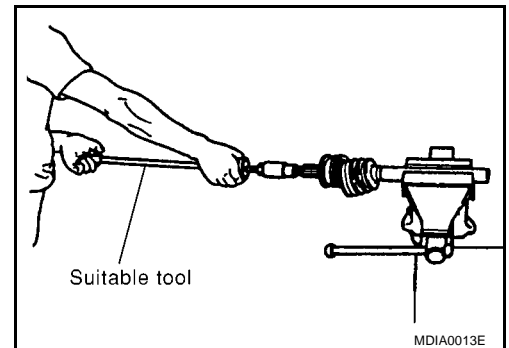
**When securing with a vise, use copper panel, aluminum, or similar material.**

- Remove boot bands. Then remove boot from joint sub-assembly.
- Screw drive shaft puller (commercial service tool) by at least 30 mm (1.18 in) into thread of joint sub-assembly. Then pull joint sub-assembly out of shaft.

**CAUTION:**

**If joint sub-assembly cannot be pulled out even after above operation is repeated 5 times, replace entire drive shaft assembly.**

- Remove boot from shaft.
- Remove dynamic damper from shaft.
- Remove circlip from shaft.
- Wipe off old grease.

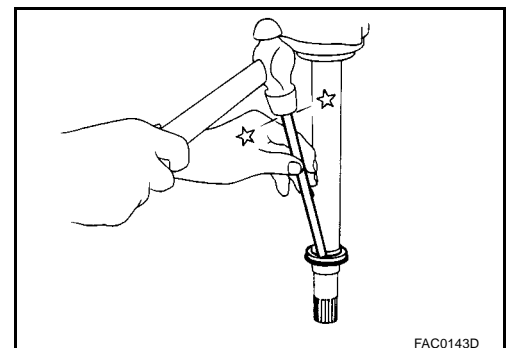


H  
I  
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L  
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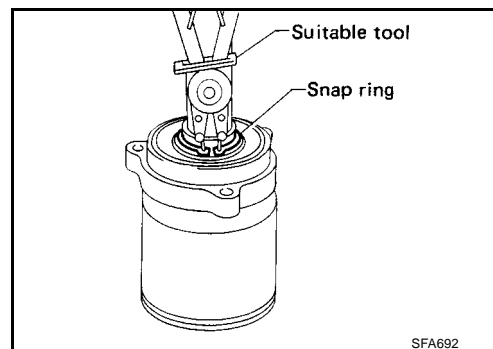
### Support Bearing (Joint type: D03300+SSG GRE)

- As shown in figure, remove dust seal from shaft using a brass rod and flat-bladed screwdriver.

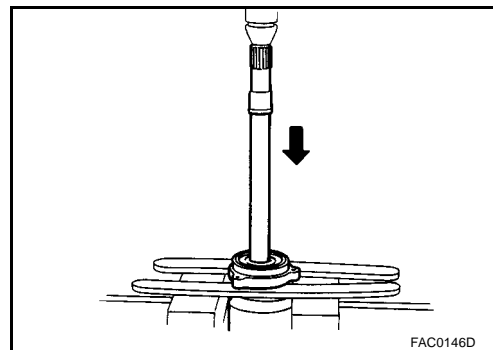


## FRONT DRIVE SHAFT

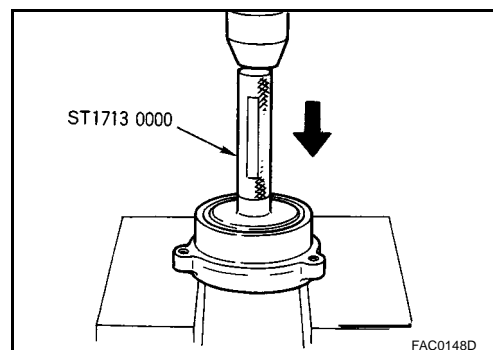
2. Remove snap ring from housing.



3. As shown in figure, press support bearing assembly out of housing.

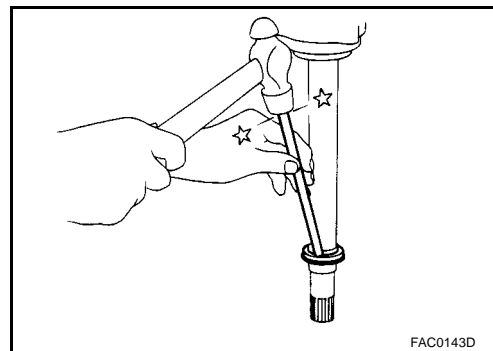


4. Remove snap ring from support bearing housing. Then, as shown in figure, pull support bearing out of housing using a drift (special service tool).



### Support Bearing (Joint type: BJ100TJ95+B)

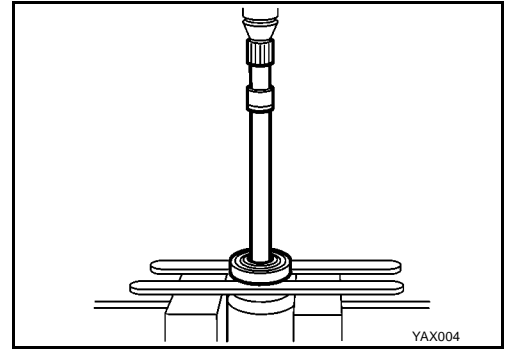
1. As shown in figure, remove sleeve from shaft using a brass rod and flat-bladed screwdriver.





# FRONT DRIVE SHAFT

2. Remove support bearing.



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## INSPECTION AFTER DISASSEMBLY

### Shaft

- Replace shaft if there is any runout, cracking or damage.

### Boot and Boot Bands

- Replace boot if there are any cracks.

#### **CAUTION:**

**For the wheel side, boot must be replaced together with drive shaft assembly.**

- Once removed, boot bands must be replaced with new ones.

#### **CAUTION:**

**For the wheel side, boot must be replaced together with drive shaft assembly.**

### Joint Sub-Assembly (Fixed Joint)

#### **CAUTION:**

**Joint sub-assembly cannot be disassembled. Do not attempt to disassemble it.**

### Joint Assembly (Transaxle Side)

#### **CAUTION:**

**Joint sub-assembly cannot be disassembled. Do not attempt to disassemble it.**

### Joint Assembly (Wheel Side)

#### **CAUTION:**

**Joint assembly cannot be disassembled. Do not attempt to disassemble it.**

### Support Bearing

- Check that support bearing is in normal condition without damage or excessive wear.
- Check that support bearing housing is not cracked or damaged.

## ASSEMBLY

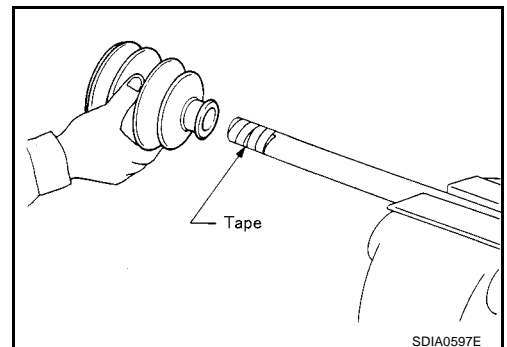
### Transaxle Side

1. Wind serrated part of drive shaft with tape. Install boot band and boot to shaft. Be careful not to damage boot.

#### **CAUTION:**

**Discard the old boot band and boot: replace with new ones.**

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



## FRONT DRIVE SHAFT

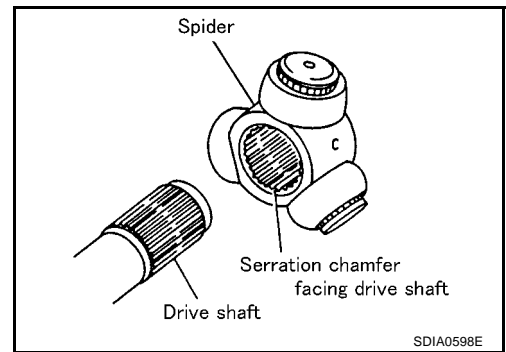
3. Line up alignment marks which were made when spider assembly was removed. Install spider assembly, with serration chamfer facing drive shaft.
4. Secure spider assembly with snap ring.

**CAUTION:**

**Discard the old snap ring: replace with new ones.**

5. Apply Nissan genuine grease or equivalent to spider assembly and sliding surface.
6. Install sliding joint housing to spider assembly. Add remaining grease up to the amount listed below.

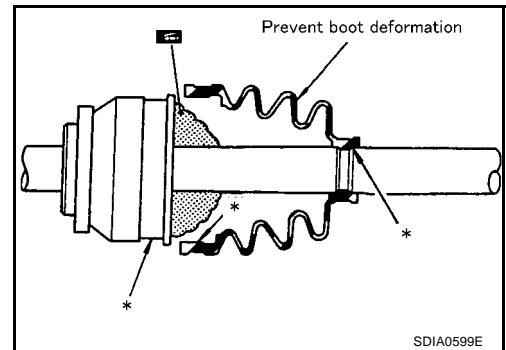
**Grease amount** : Refer to FAX-23. "SERVICE DATA AND SPECIFICATIONS (SDS)" .



7. 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 joint, boot may come off. Remove all grease from surfaces.**



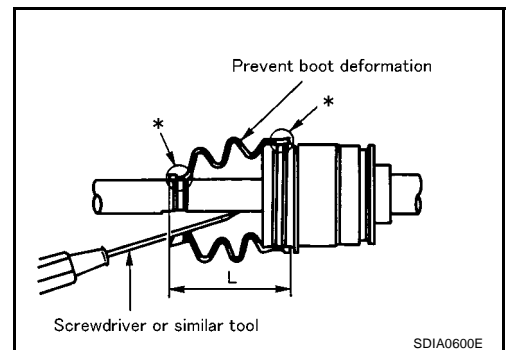
8. Check that boot installation length "L" is the length indicated below. Insert a screwdriver or similar tool into smaller side of boot. Remove air from boot to prevent boot deformation.

**Boot installation length:**

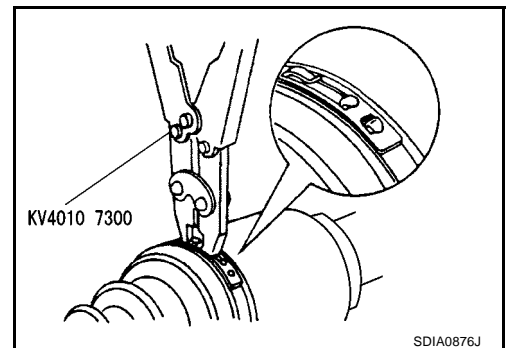
Refer to FAX-23. "SERVICE DATA AND SPECIFICATIONS (SDS)" .

**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.



9. As shown in the figure, secure the big and small ends of the boot with new boot bands.



## FRONT DRIVE SHAFT

10. Rotate joint part and confirm that mounting position of boot does not deviate. When it deviates, mount a new boot band again.

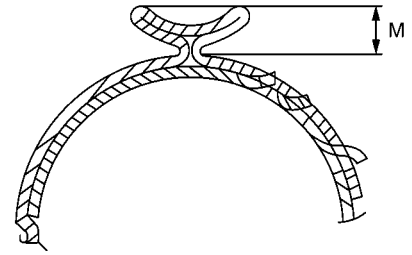
**CAUTION:**

When fixing boot band, fix so that the M diameter on the drawing becomes as follows.

**M diameter (small ends)**

**D03300+SSG GRE : 5mm (0.20 in)**

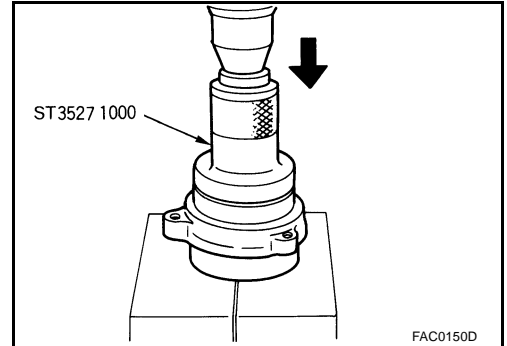
Joint type with D03300+SSG GRE



MDIA0072E

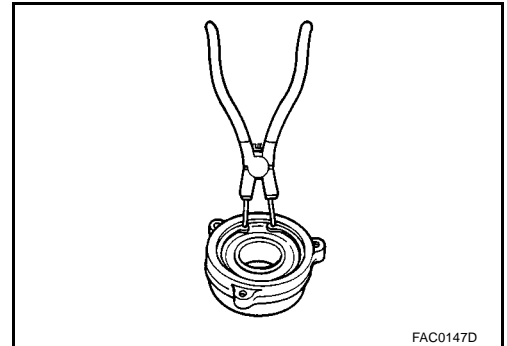
### Support Bearing (Joint type: D03300+SSG GRE)

1. Using a drift (special service tool), press-fit support bearing into housing.



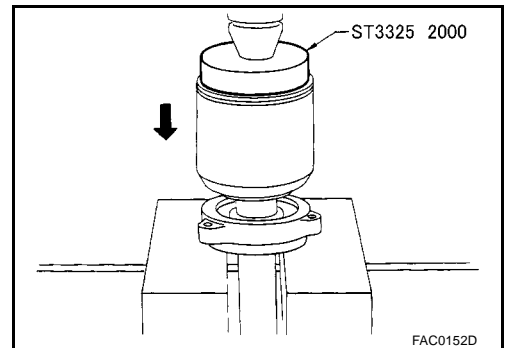
FAC0150D

2. Install support bearing into support bearing housing, and then secure with snap ring.



FAC0147D

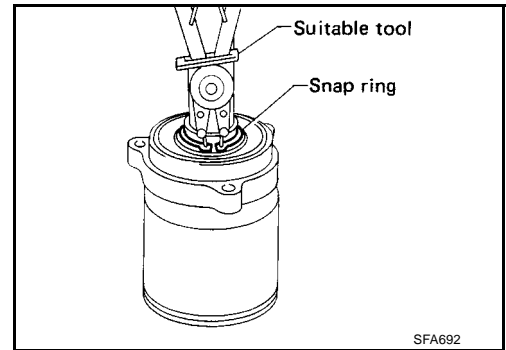
3. Using a drift (special service tool), press-fit support bearing assembly into housing.



FAC0152D

## FRONT DRIVE SHAFT

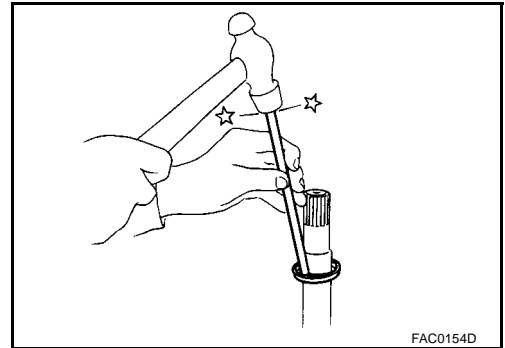
- Secure support bearing assembly with snap ring.



- Using a brass and flat-bladed screwdriver, press-fit dust seal.

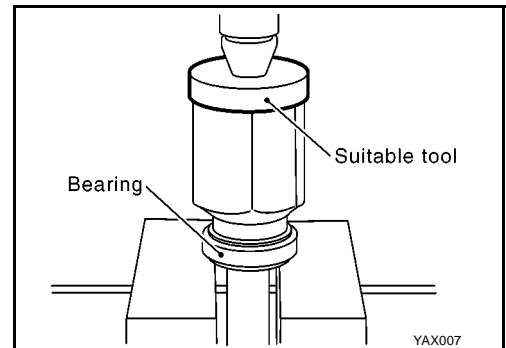
**CAUTION:**

**When press-fitting, avoid deformation of dust seal.**



### Support Bearing (Joint type: BJ100TJ95+B)

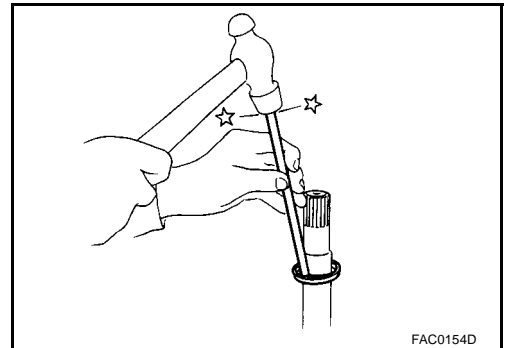
- Using a drift (special service tool), press-fit support bearing.



- Using a brass and flat-bladed screwdriver, press-fit sleeve.

**CAUTION:**

**When press-fitting, avoid deformation of sleeve.**



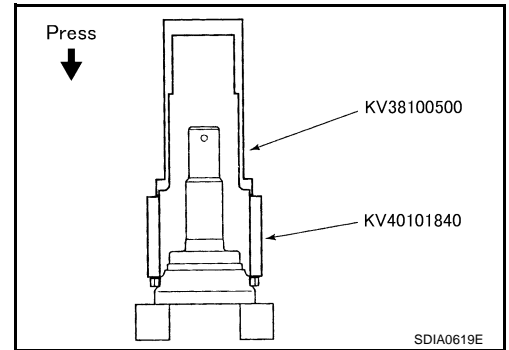
# FRONT DRIVE SHAFT

## Wheel Side

1. Use a drift to press-fit sensor rotor into joint sub-assembly.

### CAUTION:

- Discard the old sensor rotor; replace with a new one.
- Joint assembly cannot be disassembled. Do not attempt to disassemble it.

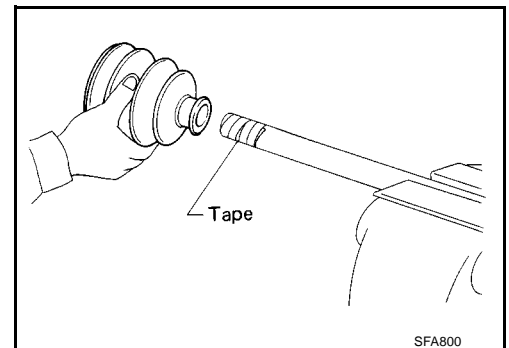


2. Wrap serrated portion of drive shaft with tape to prevent damage to boot. Then install boot bands and boot onto shaft.

### CAUTION:

**Boot bands and boot cannot be reused. Do not attempt to reuse them.**

3. Remove tape wrapped around serrated portion of shaft.



4. Install a circlip onto shaft. When doing so, be sure that circlip is securely fit in groove of shaft. Install a nut onto joint sub-assembly, and use a wooden hammer to press-fit it into shaft.

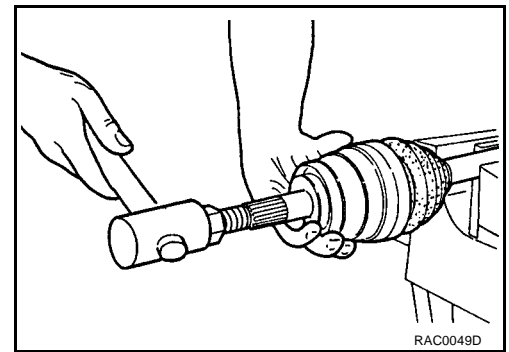
### CAUTION:

**Circlips cannot be reused. Do not attempt to reuse them.**

5. From large-diameter side of boot, add NISSAN genuine grease (from part catalog) to housing up to specified level.

**Specified amount of grease:**

**: Refer to [FAX-23, "SERVICE DATA AND SPECIFICATIONS \(SDS\)"](#) .**



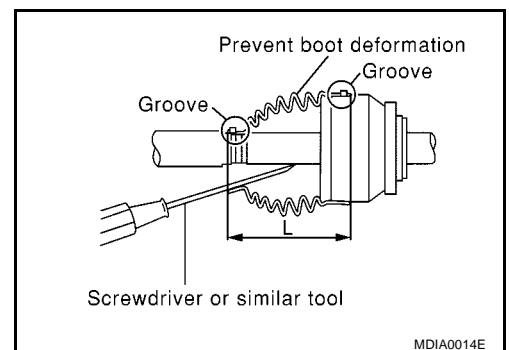
6. Install boot securely in groove shown [with an asterisk (\*)] in figure.

### CAUTION:

**Remove grease adhering to joint boot installation area [with an asterisk (\*)]. Grease adhesion to boot installation area may cause boot to come off.**

7. Check that length of boot (L) is as specified below. Then insert a flat-bladed screwdriver from small-diameter side to adjust pressure inside/outside boot to prevent deformation of boot.

**Length : Refer to [FAX-23, "SERVICE DATA AND SPECIFICATIONS \(SDS\)"](#) .**

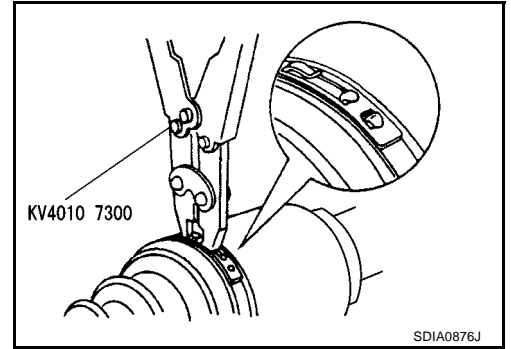


### CAUTION:

- If installation length of boot is below standard, it may cause breakage to boot.
- Take care not to contact inner surface of boot with tip of a screwdriver.

## FRONT DRIVE SHAFT

8. As shown in the figure, secure the big and small ends of the boot with new boot bands.



9. Rotate joint part and confirm that mounting position of boot does not deviate. When it deviates, mount a new boot band again.

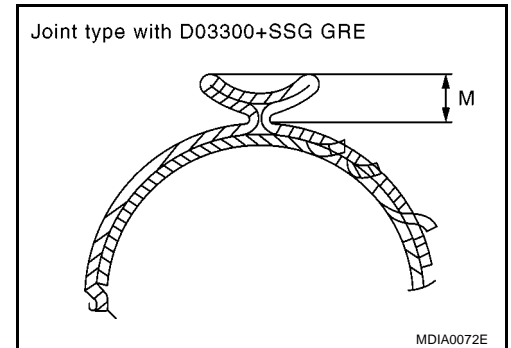
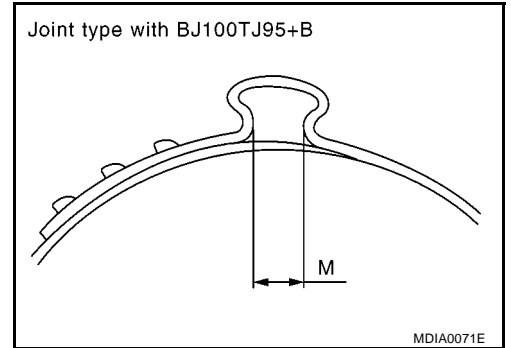
**CAUTION:**

When fixing boot band, fix so that the M diameter on the drawing becomes as follows.

**M diameter (small ends)**

**D03300+SSG GRE : 5mm (0.20 in)**

**BJ100TJ95+B : 1.0 - 4.0 (0.04 - 0.16 in)**

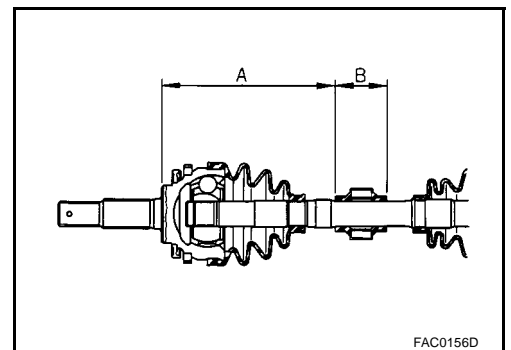


### Dynamic Damper

- When dynamic damper has been removed, secure with bands as shown in the figure so that measurements from fixed-joint side are as listed below.

**CAUTION:**

Discard the old dynamic damper: replace with a new one.



### Mounting Dimensions

Applied model	Engine	YD22DDTi		F9Q	
	Transaxle	6-MT		6-MT	
	Drive shaft	RH	LH	RH	LH
Dimension mm (in)	"A"	227 - 233 (8.94 - 9.17)	177 - 183 (6.97 - 7.20)	227 - 233 (8.94 - 9.17)	207 - 213 (8.15 - 8.39)
	"B"	70 (2.76)		70 (2.76)	

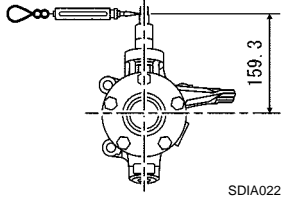
# SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

PFP:00030

### Wheel Bearing

EDS0015R

Drive type	2WD
Rotation torque	1.645 N·m (0.168 kg-m, 15 in-lb) or less
Spring balance reading	10.3 N (1.05 kg, 2.3 lb) or less
Installation location of spring scale	 <p>SDIA0221J</p>
Axial end play	0.045 - 0.065 mm (0.0018 - 0.0026 in) or less

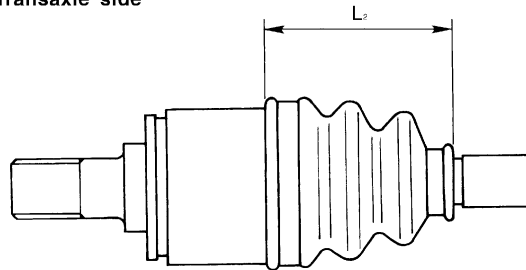
### Drive Shaft

EDS0015S

Applied model	Engine	YD22DDTi	F9Q
	Transaxle	6-MT	6-MT
Joint type	Transaxle side	39711-AV610 39711-AV615 (D03300+SSG)	39771-AW312 39711-AW312 (TJ95B0230)
	Wheel side	39211-AV610 (D03300+SSG)	39211-AW300 (BJ100LACB0258)
Grease capacity g (oz)	Transaxle side	215.0 - 225.0 (7.58 - 7.94) SSG grease	160 - 180 (5.64 - 6.35)
	Wheel side	Joint	130 - 150 (4.59 - 5.29)
		Boot	
Boot length mm (in)	Transaxle side "L2 "	105 (4.13)	
	Wheel side "L1 "	105 - 106 (4.13 - 4.17)	

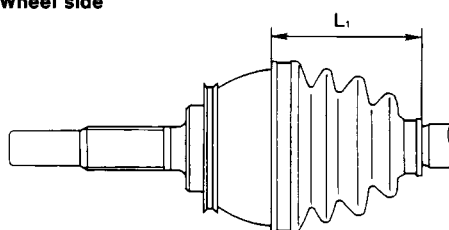
# SERVICE DATA AND SPECIFICATIONS (SDS)

Transaxle side



SFA961AA

Wheel side

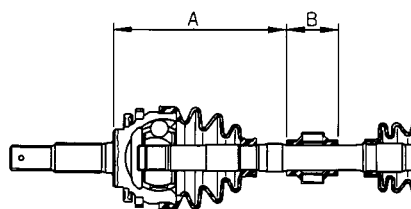


SFA962A

## Dynamic Damper

EDS0015T

Applied model	Engine	YD22DDTi		F9Q	
	Transaxle	6-MT		6-MT	
	Drive shaft	RH	LH	RH	LH
Dimension mm (in)	"A"	227 - 233 (8.94 - 9.17)	177 - 183 (6.97 - 7.20)	227 - 233 (8.94 - 9.17)	207 - 213 (8.15 - 8.39)
	"B"	70 (2.76)		70 (2.76)	



FAC0156D