

SECTION FAX

FRONT AXLE

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FAX

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NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

INFOID:000000003811068

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

Reference page			—	FAX-33	—	FAX-8	—	FAX-6	NVH in FAX and FSU sections	Refer to Front axle in this chart	NVH in WT section	NVH in WT section	Refer to DRIVE SHAFT in this chart	NVH in BR section	NVH in ST section
Possible cause and SUSPECTED PARTS			Excessive joint angle	Joint sliding resistance	Imbalance	Improper installation, looseness	Parts interference	Wheel bearing damage	FRONT AXLE AND FRONT SUSPENSION	FRONT AXLE	TIRE	ROAD WHEEL	DRIVE SHAFT	BRAKE	STEERING
Symptom	DRIVE SHAFT	Noise	×	×				×	×	×	×	×		×	×
		Shake	×		×			×	×	×	×	×		×	×
	FRONT AXLE	Noise				×	×	×	×		×	×	×	×	×
		Shake				×	×	×	×		×	×	×	×	×
		Vibration				×	×	×	×		×		×		×
		Shimmy				×	×		×		×	×		×	×
		Judder				×			×		×	×		×	×
		Poor quality ride or handling				×	×		×		×	×			

×: Applicable

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000003890158

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000003890159

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Turn the push-button ignition switch to ACC position.
(At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Precautions for Drive Shaft

INFOID:000000003811071

CAUTION:

Note the following precautions when disassembling and assembling drive shaft.

- Never disassemble joint sub-assembly because it is non-overhaul parts.
- Perform work in a dust-free location.
- Before disassembling and assembling, clean the parts.
- Prevent the entry of foreign objects during disassembly of the service location.

PRECAUTIONS

< PRECAUTION >

- **Disassembled parts must be carefully reassembled in the correct order. If work is interrupted, a clean cover must be placed over parts.**
- **Paper waste must be used. Never use fabric shop cloths 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 waste.**

PREPARATION

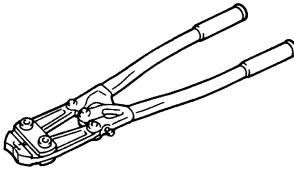
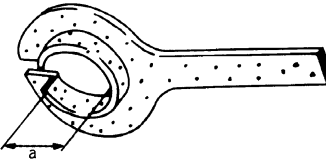
< PREPARATION >

PREPARATION

PREPARATION

Special Service Tool

INFOID:000000003811072

Tool number Tool name	Description
KV40107300 Boot band crimping tool	Installing boot band
 ZZA1229D	
KV40107500 Drive shaft attachment	Removing drive shaft
 ZZA1230D	
KV38107900 Protector a: 32 mm (1.26 in) dia.	Installing drive shaft
 PDIA1183J	

FRONT WHEEL HUB AND KNUCKLE

< ON-VEHICLE MAINTENANCE >

ON-VEHICLE MAINTENANCE

FRONT WHEEL HUB AND KNUCKLE

Inspection

INFOID:000000003811074

MOUNTING INSPECTION

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

WHEEL BEARING INSPECTION

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

Standard

Axial end play : Refer to [FAX-35, "Wheel Bearing"](#).

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

FRONT DRIVE SHAFT

< ON-VEHICLE MAINTENANCE >

FRONT DRIVE SHAFT

Inspection

INFOID:000000003811075

- Check drive shaft mounting point and joint for looseness and other damage.
- Check boot for cracks and other damage.

CAUTION:

Replace drive shaft assembly when noise or vibration occur from drive shaft.

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FRONT WHEEL HUB AND KNUCKLE

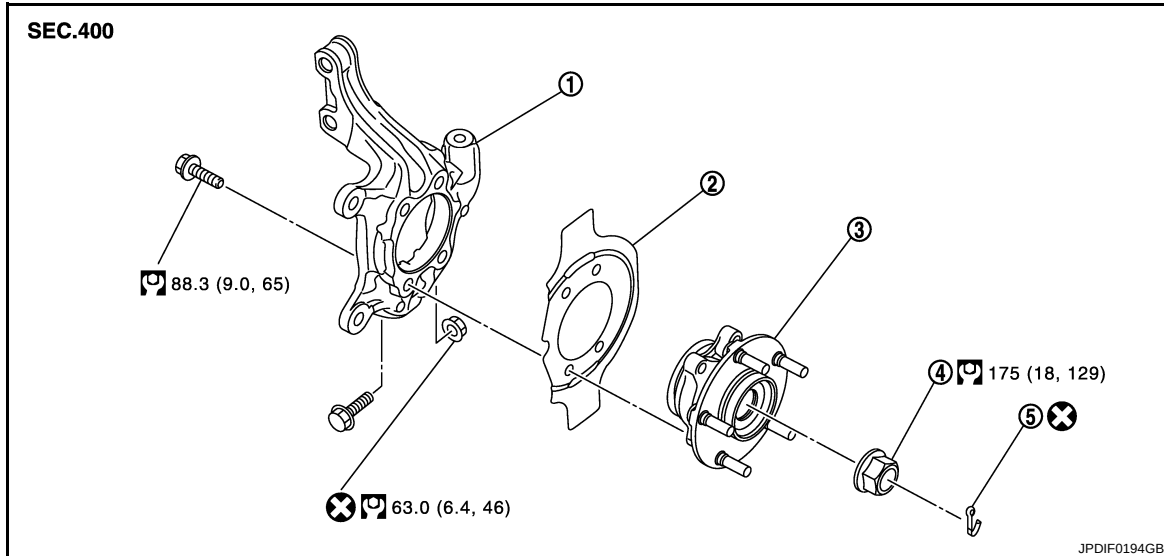
< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

FRONT WHEEL HUB AND KNUCKLE

Exploded View

INFOID:000000003811076



1. Steering knuckle
2. Splash guard
3. Wheel hub and bearing assembly
4. Wheel hub lock nut
4. Cotter pin

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003811077

REMOVAL

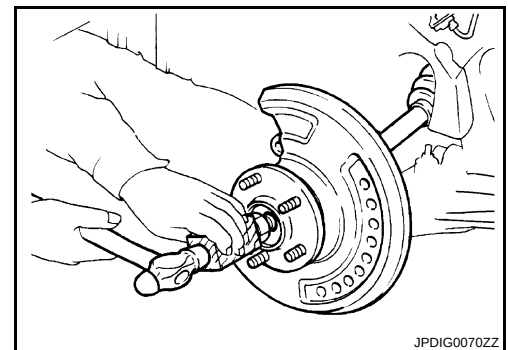
1. Remove tires.
2. Remove wheel sensor and sensor harness. Refer to [BRC-57, "FRONT WHEEL SENSOR : Exploded View"](#) (without VDC), [BRC-151, "FRONT WHEEL SENSOR : Exploded View"](#) (with VDC).
3. Remove lock plate of brake hose from strut assembly. Refer to [BR-19, "FRONT : Exploded View"](#).
4. Remove caliper assembly. Hang caliper assembly not to interfere with work. Refer to [BR-34, "BRAKE CALIPER ASSEMBLY : Exploded View"](#).
5. Remove disc rotor. Refer to [BR-35, "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).
6. Remove cotter pin, and then loosen wheel hub lock nut.
7. Patch wheel hub lock nut with a piece of wood. Hammer the wood to disengage drive shaft from wheel hub and bearing assembly.

CAUTION:

- Never place drive shaft joint at an extreme angle. Also be careful not to overextend slide joint.
- Never allow drive shaft to hang down without support for joint sub-assembly, shaft and the other parts.

NOTE:

Use suitable puller, if wheel hub and bearing assembly and drive shaft cannot be separated even after performing the above procedure.



8. Remove wheel hub lock nut.
9. Remove strut assembly from steering knuckle. Refer to [FSU-9, "Exploded View"](#).
10. Remove drive shaft from wheel hub and bearing assembly, suspend the drive shaft with suitable wire. Refer to [FAX-16, "Exploded View"](#).

FRONT WHEEL HUB AND KNUCKLE

< ON-VEHICLE REPAIR >

11. Temporarily tighten strut assembly and steering knuckle.
12. Remove wheel hub and bearing assembly, and then remove splash guard.
13. Remove steering outer socket from steering knuckle. Refer to [ST-18, "Exploded View"](#).
14. Remove steering knuckle from transverse link and strut assembly.

INSTALLATION

Note the following, and install in the reverse order of the removal.

- Install removed wheel hub and bearing assembly and steering knuckle and perform the final tightening of each part under unladen conditions on the level surface.
- Never reuse cotter pin.

Inspection

INFOID:0000000003811078

FAX

INSPECTION AFTER REMOVAL

Check components for deformation, cracks, and other damage. Replace if necessary.

Ball Joint Inspection

Check boots of transverse link and steering outer socket ball joint for breakage, axial play, and torque. Refer to [FSU-12, "Inspection"](#) and [ST-26, "Inspection"](#).

INSPECTION AFTER INSTALLATION

1. Check wheel sensor harness for proper connection. Refer to [BRC-57, "FRONT WHEEL SENSOR : Exploded View"](#) (without VDC), [BRC-151, "FRONT WHEEL SENSOR : Exploded View"](#). (with VDC).
2. Check the wheel alignment. Refer to [FSU-7, "Wheel Alignment Inspection"](#).
3. Adjust neutral position of steering angle sensor (with VDC). Refer to [BRC-66, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement"](#).

FRONT DRIVE SHAFT BOOT

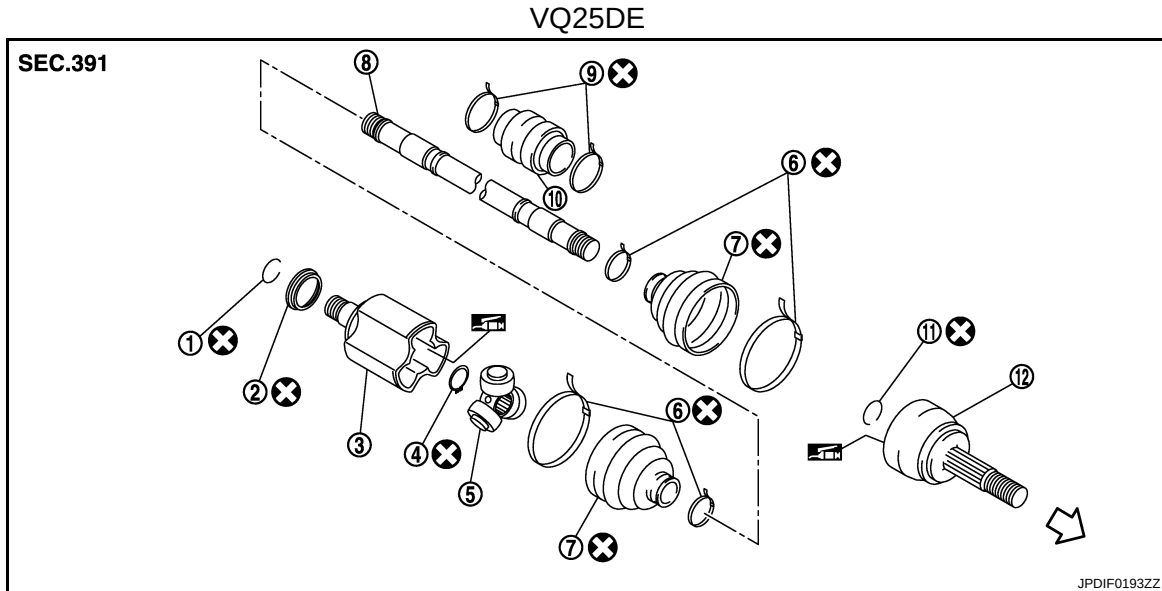
< ON-VEHICLE REPAIR >

FRONT DRIVE SHAFT BOOT

Exploded View

INFOID:000000003811079

LEFT SIDE

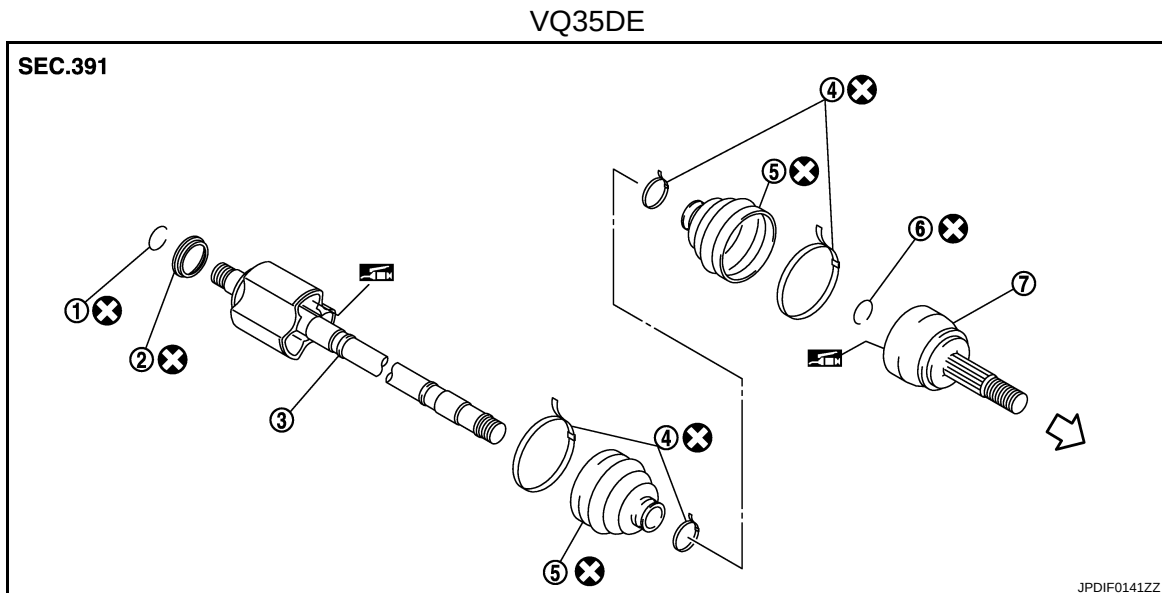


- | | | |
|--------------------|--------------------|------------------------|
| 1. Circular clip | 2. Dust shield | 3. Housing |
| 4. Snap ring | 5. Spider assembly | 6. Boot band |
| 7. Boot | 8. Shaft | 9. Damper band |
| 10. Dynamic damper | 11. Circular clip | 12. Joint sub-assembly |

⇐ : Wheel side

: Fill NISSAN Genuine grease or equivalent.

Refer to [GI-4, "Components"](#) for symbols not described on the above.



- | | | |
|-----------------------|----------------|---------------------|
| 1. Circular clip | 2. Dust shield | 3. Housing assembly |
| 4. Boot band | 5. Boot | 6. Circular clip |
| 7. Joint sub-assembly | | |

⇐ : Wheel side

FRONT DRIVE SHAFT BOOT

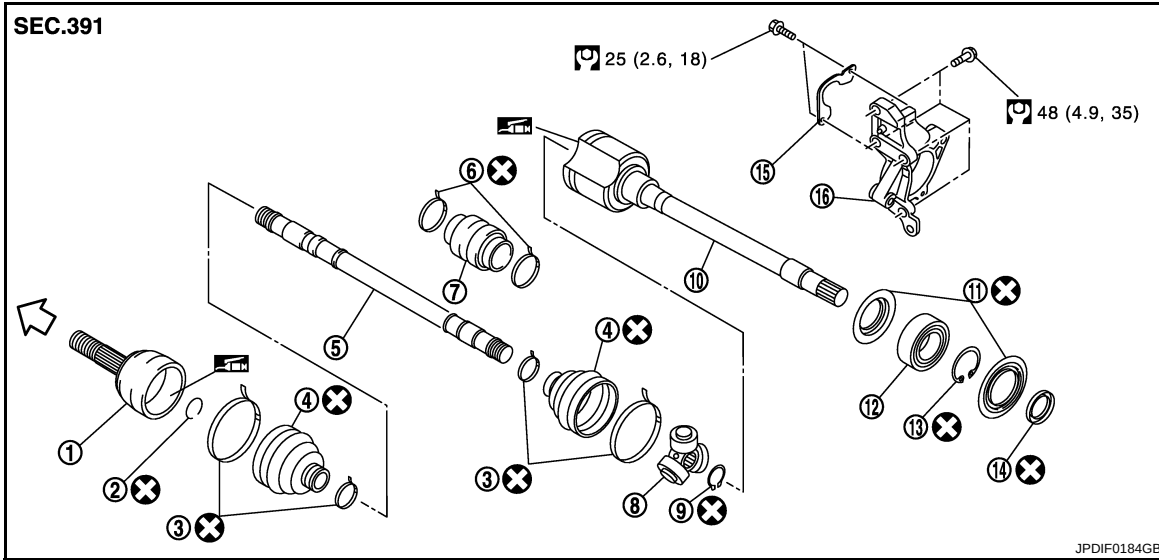
< ON-VEHICLE REPAIR >

 : Fill NISSAN Genuine grease or equivalent.

Refer to [GI-4, "Components"](#) for symbols not described on the above.

RIGHT SIDE

VQ25DE



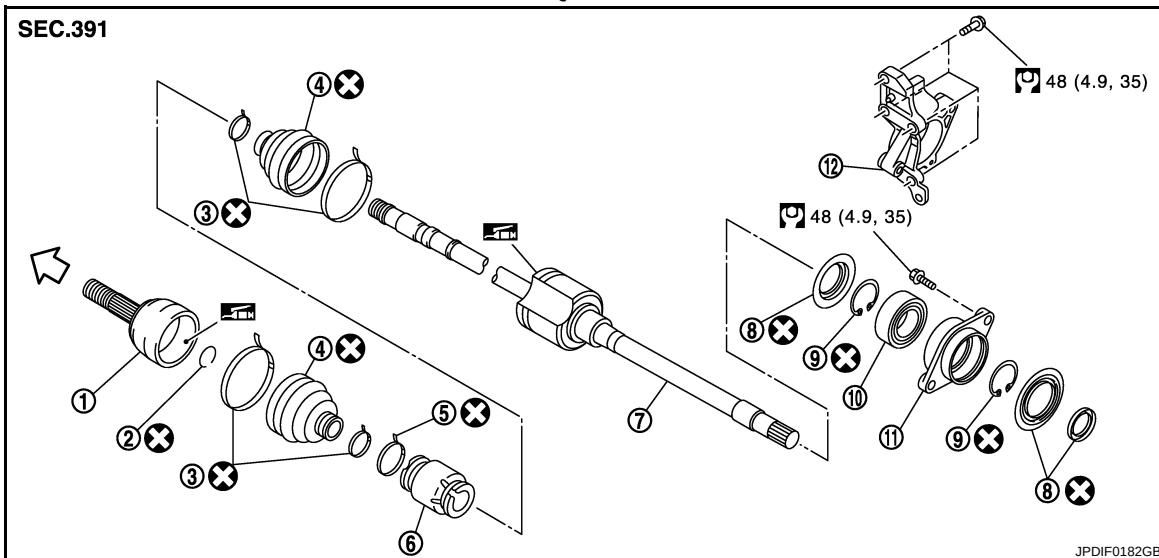
- | | | |
|-----------------------------|--------------------|---------------------|
| 1. Joint sub-assembly | 2. Circular clip | 3. Boot band |
| 4. Boot | 5. Shaft | 6. Damper band |
| 7. Dynamic damper | 8. Spider assembly | 9. Snap ring |
| 10. Housing | 11. Dust shield | 12. Support bearing |
| 13. Snap ring | 14. Dust shield | 15. Plate |
| 16. Support bearing bracket | | |

 : Wheel side

 : Fill NISSAN Genuine grease or equivalent.

Refer to [GI-4, "Components"](#) for symbols not described on the above.

VQ35DE



- | | | |
|-----------------------|--------------------|-----------------------------|
| 1. Joint sub-assembly | 2. Circular clip | 3. Boot band |
| 4. Boot | 5. Damper band | 6. Dynamic damper |
| 7. Housing assembly | 8. Dust shield | 9. Snap ring |
| 10. Support bearing | 11. Baring housing | 12. Support bearing bracket |

FRONT DRIVE SHAFT BOOT

< ON-VEHICLE REPAIR >

↩ : Wheel side

 : Fill NISSAN Genuine grease or equivalent.

Refer to [GI-4, "Components"](#) for symbols not described on the above.

WHEEL SIDE

WHEEL SIDE : Removal and Installation

INFOID:000000003811080

REMOVAL

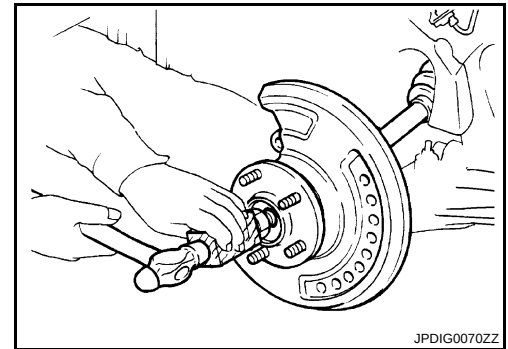
1. Remove tires.
2. Remove wheel sensor and sensor harness. Refer to [BRC-57, "FRONT WHEEL SENSOR : Exploded View"](#) (without VDC), [BRC-151, "FRONT WHEEL SENSOR : Exploded View"](#) (with VDC).
3. Remove lock plate of brake hose from strut assembly. Refer to [BR-19, "FRONT : Exploded View"](#).
4. Remove caliper assembly. Hang caliper assembly not to interfere with work. Refer to [BR-34, "BRAKE CALIPER ASSEMBLY : Exploded View"](#).
5. Remove disc rotor. Refer to [BR-35, "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).
6. Remove cotter pin, and then loosen wheel hub lock nut. Refer to [FAX-8, "Exploded View"](#).
7. Patch wheel hub lock nut with a piece of wood. Hammer the wood to disengage drive shaft from wheel hub and bearing assembly.

CAUTION:

- Never place drive shaft joint at an extreme angle. Also be careful not to overextend slide joint.
- Never allow drive shaft to hang down without support for joint sub-assembly and the other parts.

NOTE:

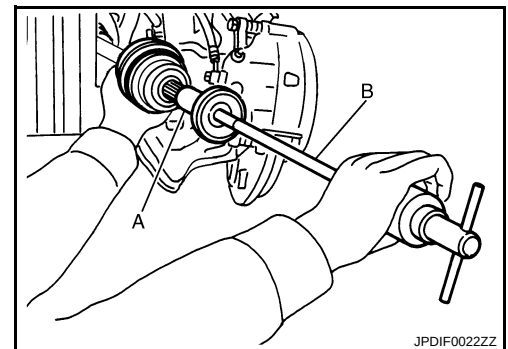
Use suitable puller, if wheel hub and bearing assembly and drive shaft cannot be separated even after performing the above procedure.



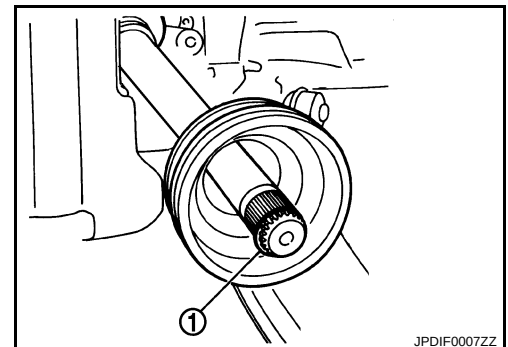
8. Remove wheel hub lock nut.
9. Remove steering knuckle from strut assembly. Refer to [FSU-9, "Exploded View"](#).
10. Remove drive shaft from wheel hub and bearing assembly.
11. Remove boot bands, and then remove boot from joint sub-assembly.
12. Screw drive shaft puller (A) into joint sub-assembly screw part to a length of 30 mm (1.18 in) or more. Support drive shaft with one hand and pull out joint sub-assembly with a sliding hammer (B) from shaft (VQ25DE) or housing assembly (VQ35DE).

CAUTION:

- Align a sliding hammer and drive shaft and remove them by pulling firmly and uniformly.
- If joint sub-assembly cannot be pulled out, try after removing drive shaft from vehicle.



13. Remove circular clip (1) from shaft (VQ25DE) or housing assembly (VQ35DE).
14. Remove boot from shaft (VQ25DE) or housing assembly (VQ35DE).



FRONT DRIVE SHAFT BOOT

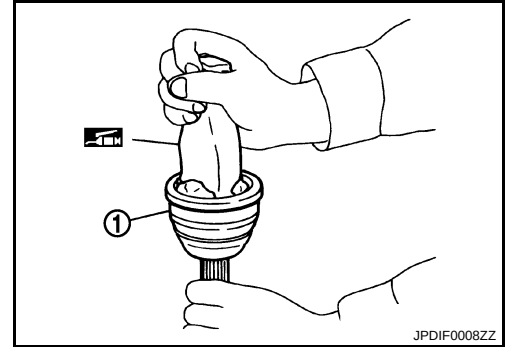
< ON-VEHICLE REPAIR >

INSTALLATION

1. Clean the old grease on joint sub-assembly with paper waste.
2. Fill serration slot joint sub-assembly (1) with NISSAN genuine grease or equivalent until the serration slot and ball groove become full to the brim.

CAUTION:

After applying grease, use a paper waste to wipe off old grease that has oozed out.

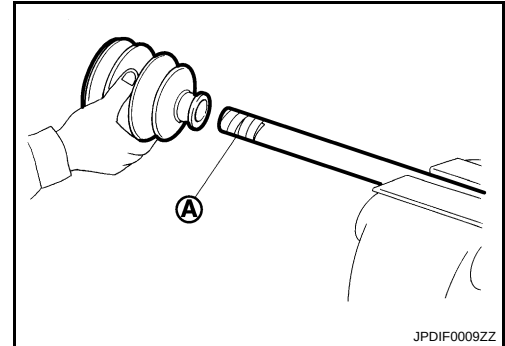


3. Wrap serration on shaft (VQ25DE) or housing assembly (VQ35DE) with tape (A) to protect the boot from damage. Install boot and boot bands to shaft (VQ25DE) or housing assembly (VQ35DE).

CAUTION:

Never reuse boot and boot band.

4. Remove the tape wrapped around the serration on shaft (VQ25DE) or housing assembly (VQ35DE).



5. Position the circular clip (1) on groove at the shaft (VQ25DE) or housing assembly (VQ35DE) edge.

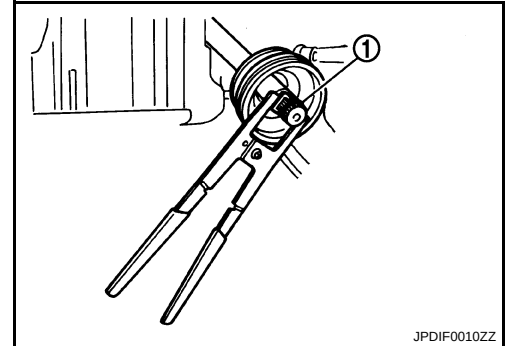
CAUTION:

Never reuse circular clip.

NOTE:

Drive joint inserter is recommended when installing circular clip.

6. Align both center axes of the shaft (VQ25DE) or housing assembly (VQ35DE) edge and joint sub-assembly. Then assemble shaft (VQ25DE) or housing assembly (VQ35DE) with circular clip joint sub-assembly.

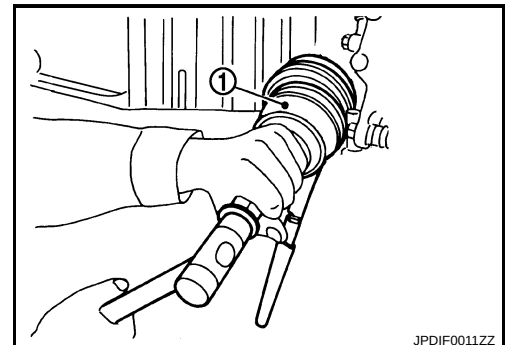


7. Install joint sub-assembly (1) to shaft (VQ25DE) or housing assembly (VQ35DE) using plastic hammer.

CAUTION:

Confirm that joint sub-assembly is correctly engaged while rotating shaft (VQ25DE) or housing assembly (VQ35DE).

8. Fill into the boot inside with the specified amount of grease from large diameter side of boot.



Standard

Grease amount : Refer to [FAX-35, "Drive Shaft"](#).

FRONT DRIVE SHAFT BOOT

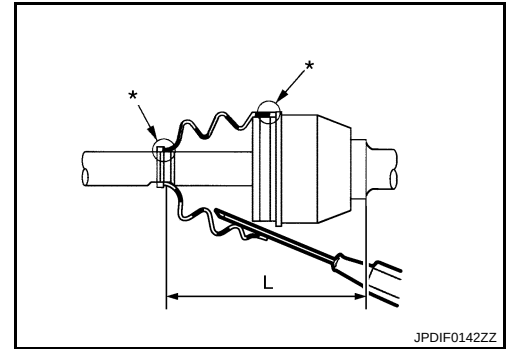
< ON-VEHICLE REPAIR >

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

CAUTION:

If grease adheres to the boot mounting surface (indicated by "*" mark) on the shaft (VQ25DE) or housing assembly (VQ35DE) or joint sub-assembly, boot may be removed. Remove all grease from the boot mounting surface.

10. To prevent from the deformation of the boot, adjust the boot installation length (L) by inserting the suitable tool into inside of the boot from the large diameter side of the boot and discharging the inside air.



Standard

L

: Refer to [FAX-35, "Drive Shaft"](#).

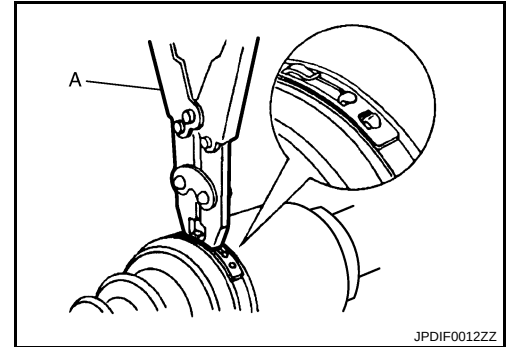
CAUTION:

- If the boot mounting length exceeds the standard, it may cause breakage in the boot.
- Be careful not to touch the inside of the boot with a tip of tool.

11. Secure the large and small ends of the boot with boot bands using the boot band crimping tool (A) (SST: KV40107300).

CAUTION:

Never reuse boot band.



NOTE:

Secure boot band so that dimension (M) meets the specification as shown in the figure.

Standard

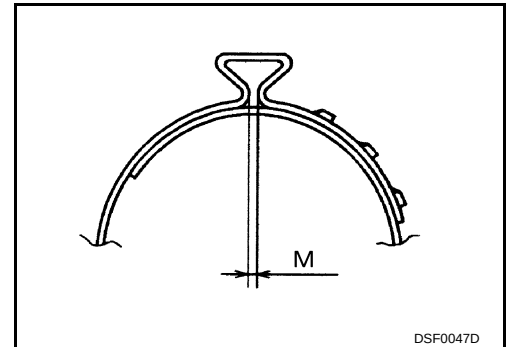
M

: 1.0 – 4.0 mm (0.039 – 0.157 in)

12. Secure joint sub-assembly and shaft (VQ25DE) or housing assembly (VQ35DE), and then make sure that they are in the correct position when rotating boot. Reinstall them using boot bands when boot installation positions become incorrect.

CAUTION:

Never reuse boot band.



13. Insert drive shaft to wheel hub and bearing assembly, and then temporarily tighten wheel hub lock nut.

CAUTION:

The drive shaft is press-fit. When assembling the drive shaft, never press it, but pull it until fully seated by tightening the wheel hub lock nut.

14. Install steering knuckle to strut assembly. Refer to [FSU-9, "Exploded View"](#).
15. Tighten the wheel hub lock nut to the specified torque. Refer to [FAX-8, "Exploded View"](#).
16. Install cotter pin. Refer to [FAX-8, "Exploded View"](#).

CAUTION:

- Never reuse cotter pin.
- Bend cotter pin at the root sufficiently to prevent any looseness.

17. Install disc rotor. Refer to [BR-35, "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).
18. Install caliper assembly to steering knuckle. Refer to [BR-34, "BRAKE CALIPER ASSEMBLY : Exploded View"](#).
19. Install lock plate of brake hose to strut assembly. Refer to [BR-19, "FRONT : Exploded View"](#).

FRONT DRIVE SHAFT BOOT

< ON-VEHICLE REPAIR >

20. Install wheel sensor and sensor harness to steering knuckle. Refer to [BRC-57, "FRONT WHEEL SENSOR : Exploded View"](#) (without VDC), [BRC-151, "FRONT WHEEL SENSOR : Exploded View"](#) (with VDC).

TRANSAXLE SIDE

TRANSAXLE SIDE : Removal and Installation

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Remove boot after removing drive shaft.

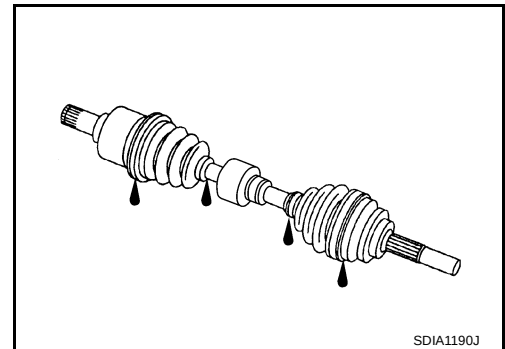
- Remove: refer to [FAX-18, "LEFT SIDE : Removal and Installation"](#) (left side), [FAX-19, "RIGHT SIDE : Removal and Installation"](#) (right side).
- Disassembly: refer to [FAX-22, "TRANSAXLE SIDE : Disassembly and Assembly"](#).

Inspection

INFOID:000000003811082

INSPECTION AFTER REMOVAL

- Move joint up/down, left/right, and in the axial directions. Check for motion that is not smooth and for significant looseness.
- Check boot for cracks, damage, and leakage of grease.
- Disassemble drive shaft and exchange malfunctioning part if there is a non-standard condition.



FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

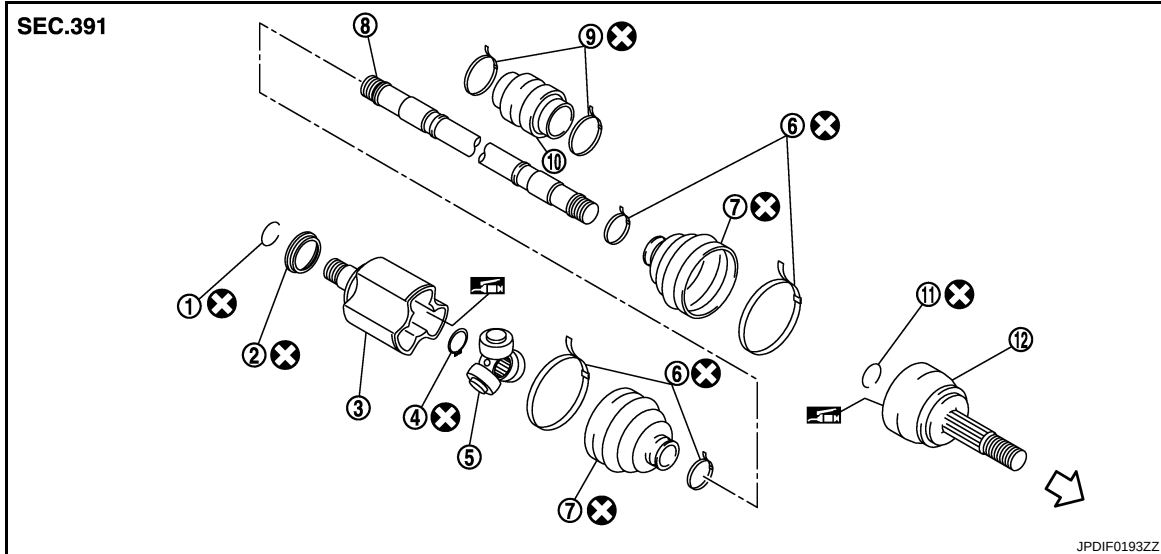
FRONT DRIVE SHAFT

Exploded View

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LEFT SIDE

VQ25DE



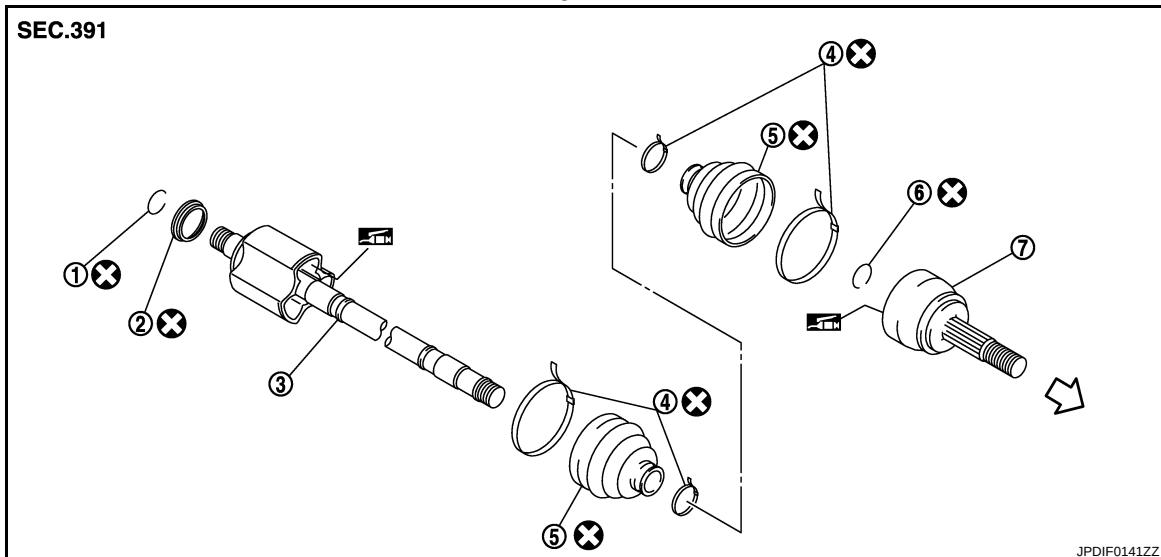
- | | | |
|--------------------|--------------------|------------------------|
| 1. Circular clip | 2. Dust shield | 3. Housing |
| 4. Snap ring | 5. Spider assembly | 6. Boot band |
| 7. Boot | 8. Shaft | 9. Damper band |
| 10. Dynamic damper | 11. Circular clip | 12. Joint sub-assembly |

⇐ : Wheel side

: Fill NISSAN Genuine grease or equivalent.

Refer to [GI-4, "Components"](#) for symbols not described on the above.

VQ35DE



- | | | |
|-----------------------|----------------|---------------------|
| 1. Circular clip | 2. Dust shield | 3. Housing assembly |
| 4. Boot band | 5. Boot | 6. Circular clip |
| 7. Joint sub-assembly | | |

⇐ : Wheel side

FRONT DRIVE SHAFT

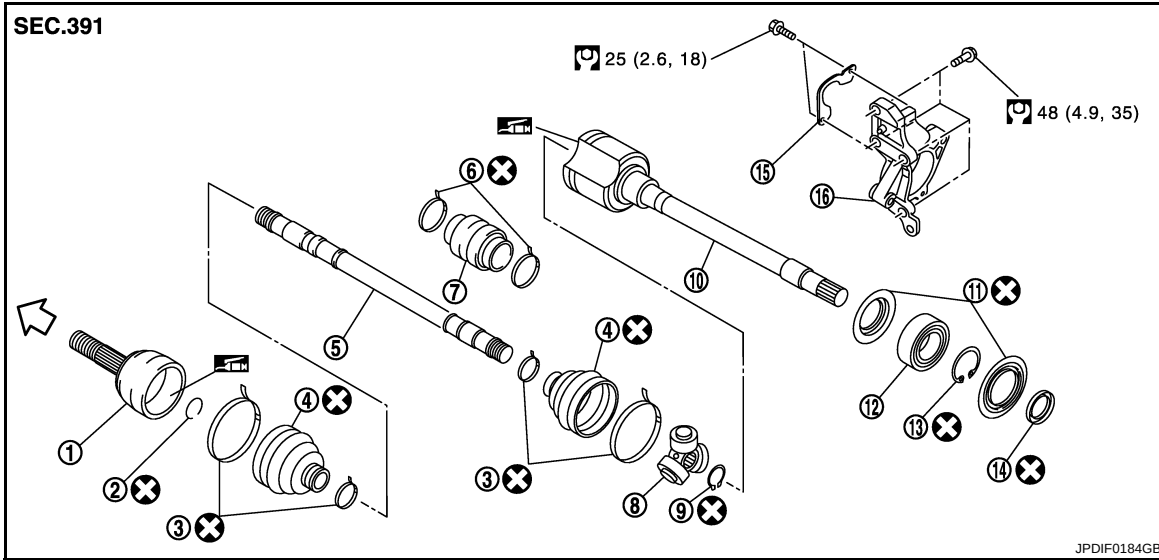
< ON-VEHICLE REPAIR >

 : Fill NISSAN Genuine grease or equivalent.

Refer to [GI-4, "Components"](#) for symbols not described on the above.

RIGHT SIDE

VQ25DE



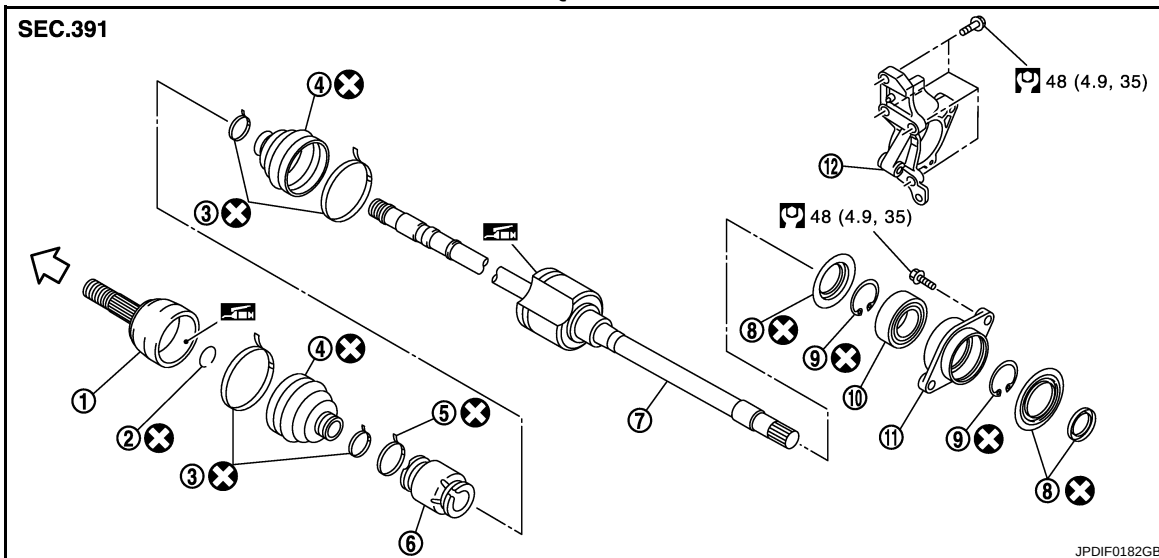
- | | | |
|-----------------------------|--------------------|---------------------|
| 1. Joint sub-assembly | 2. Circular clip | 3. Boot band |
| 4. Boot | 5. Shaft | 6. Damper band |
| 7. Dynamic damper | 8. Spider assembly | 9. Snap ring |
| 10. Housing | 11. Dust shield | 12. Support bearing |
| 13. Snap ring | 14. Dust shield | 15. Plate |
| 16. Support bearing bracket | | |

 : Wheel side

 : Fill NISSAN Genuine grease or equivalent.

Refer to [GI-4, "Components"](#) for symbols not described on the above.

VQ35DE



- | | | |
|-----------------------|--------------------|-----------------------------|
| 1. Joint sub-assembly | 2. Circular clip | 3. Boot band |
| 4. Boot | 5. Damper band | 6. Dynamic damper |
| 7. Housing assembly | 8. Dust shield | 9. Snap ring |
| 10. Support bearing | 11. Baring housing | 12. Support bearing bracket |

FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

↩ : Wheel side

 : Fill NISSAN Genuine grease or equivalent.

Refer to [GI-4, "Components"](#) for symbols not described on the above.

LEFT SIDE

LEFT SIDE : Removal and Installation

INFOID:000000003811084

REMOVAL

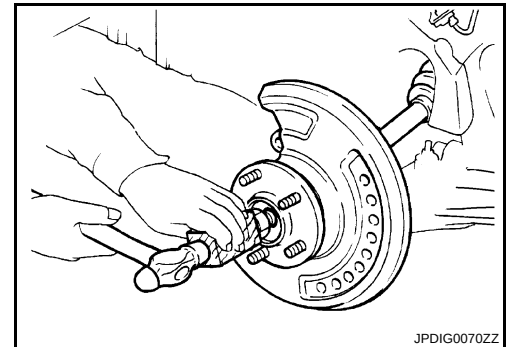
1. Remove tires.
2. Remove wheel sensor and sensor harness. Refer to [BRC-57, "FRONT WHEEL SENSOR : Exploded View"](#) (without VDC), [BRC-151, "FRONT WHEEL SENSOR : Exploded View"](#) (with VDC).
3. Remove lock plate of brake hose from strut assembly. Refer to [BR-19, "FRONT : Exploded View"](#).
4. Remove caliper assembly. Hang caliper assembly not to interfere with work. Refer to [BR-34, "BRAKE CALIPER ASSEMBLY : Exploded View"](#).
5. Remove disc rotor. Refer to [BR-35, "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).
6. Remove cotter pin, and then loosen wheel hub lock nut. Refer to [FAX-8, "Exploded View"](#).
7. Patch wheel hub lock nut with a piece of wood. Hammer the wood to disengage drive shaft from wheel hub and bearing assembly.

CAUTION:

- Never place drive shaft joint at an extreme angle. Also be careful not to overextend slide joint.
- Never allow drive shaft to hang down without support for joint sub-assembly and the other parts.

NOTE:

Use suitable puller, if wheel hub and bearing assembly and drive shaft cannot be separated even after performing the above procedure.

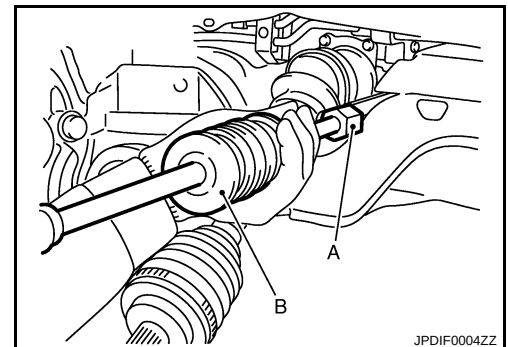


8. Remove wheel hub lock nut.
9. Remove steering knuckle from strut assembly. Refer to [FSU-9, "Exploded View"](#).
10. Remove drive shaft from wheel hub and bearing assembly.
11. Remove drive shaft from transaxle assembly.

- Use the drive shaft attachment (A) (SST: KV40107500) and a sliding hammer (B) while inserting tip of the drive shaft attachment between housing assembly and transaxle assembly.

CAUTION:

Never place drive shaft joint at an extreme angle when removing drive shaft. Also be careful not to overextend slide joint.



INSTALLATION

Note the following, and install in the reverse order of removal.

- Always replace differential side oil seal with new one when installing drive shaft. Refer to [TM-162, "Exploded View"](#) (CVT: RE0F09B), [TM-325, "Exploded View"](#) (CVT: RE0F10A).

FRONT DRIVE SHAFT

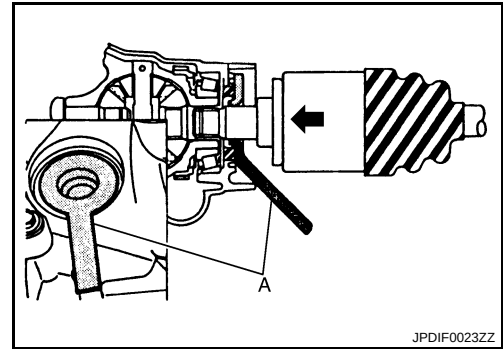
< ON-VEHICLE REPAIR >

- Place the protector (A) (SST: KV38107900) onto transaxle assembly to prevent damage to the oil seal while inserting drive shaft. Slide drive shaft sliding joint and tap with a hammer to install securely.

CAUTION:

Make sure that circular clip is completely engaged.

- Never reuse cotter pin.



RIGHT SIDE

RIGHT SIDE : Removal and Installation

INFOID:000000003811085

REMOVAL

- Remove tires.
- Remove wheel sensor and sensor harness. Refer to [BRC-57, "FRONT WHEEL SENSOR : Exploded View"](#) (without VDC), [BRC-151, "FRONT WHEEL SENSOR : Exploded View"](#) (with VDC).
- Remove lock plate of brake hose from strut assembly. Refer to [BR-19, "FRONT : Exploded View"](#).
- Remove caliper assembly. Hang caliper assembly not to interfere with work. Refer to [BR-34, "BRAKE CALIPER ASSEMBLY : Exploded View"](#).
- Remove disc rotor. Refer to [BR-35, "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).
- Remove cotter pin, and then loosen wheel hub lock nut. Refer to [FAX-8, "Exploded View"](#).

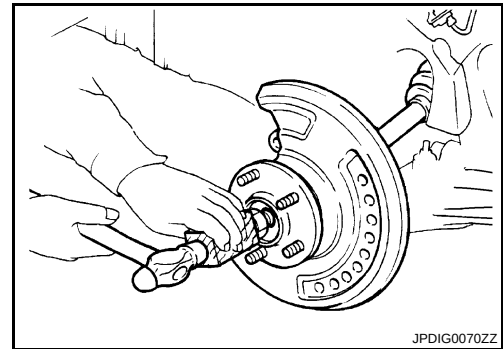
Patch wheel hub lock nut with a piece of wood. Hammer the wood to disengage drive shaft from wheel hub and bearing assembly.

CAUTION:

- Never place drive shaft joint at an extreme angle. Also be careful not to overextend slide joint.**
- Never allow drive shaft to hang down without support for joint sub-assembly and the other parts.**

NOTE:

Use suitable puller, if wheel hub and bearing assembly and drive shaft cannot be separated even after performing the above procedure.



- Remove wheel hub lock nut.
 - Remove steering knuckle from strut assembly. Refer to [FSU-9, "Exploded View"](#).
 - Remove drive shaft from wheel hub and bearing assembly.
 - Remove the following bolts.
 - VQ25DE: plate mounting bolts.
 - VQ35DE: bearing housing mounting bolts.
 - Remove drive shaft from transaxle assembly.
- CAUTION:**
- Never place drive shaft joint at an extreme angle when removing drive shaft. Also be careful not to overextend slide joint.**
- Remove support bearing bracket, follow the procedure described below.
 - Remove heat insulator from suspension member.
 - Remove front exhaust tube. Refer to [EX-5, "Exploded View"](#).
 - Remove three way catalyst (bank 1) support bracket and heated oxygen sensor harness bracket. Refer to [EM-34, "Exploded View"](#).
 - Remove support bearing bracket.

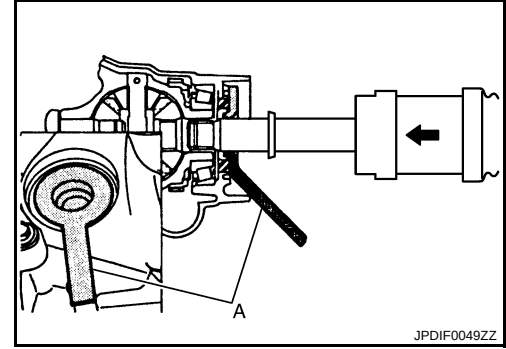
INSTALLATION

Note the following, and install in the reverse order of removal.

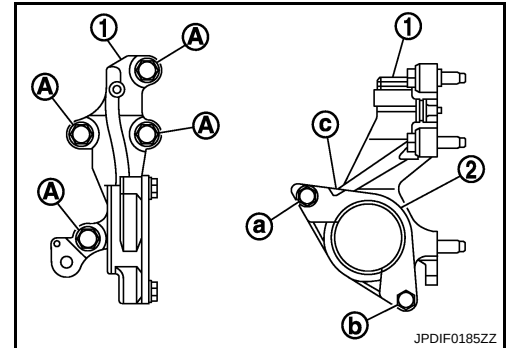
FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

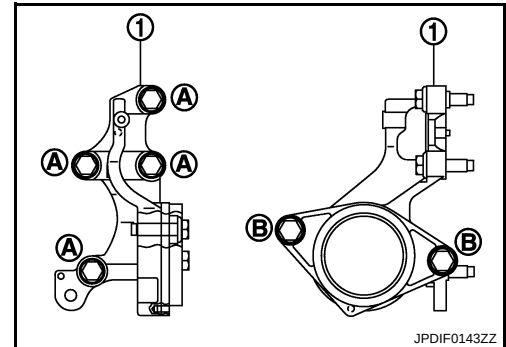
- Always replace differential side oil seal with new one when installing drive shaft. Refer to [TM-162. "Exploded View"](#) (CVT: RE0F09B), [TM-325. "Exploded View"](#) (CVT: RE0F10A).
- Place the protector (A) (SST: KV38107900) onto transaxle assembly to prevent damage to the oil seal while inserting drive shaft. Slide drive shaft sliding joint and tap with a hammer to install securely.



- Install support bearing bracket (1) in following procedure.(VQ25DE)
 - Temporarily tighten mounting bolts (A), then tighten them to specified torque.
 - Set plate (2) so that notch (C) become upper side.
 - Temporarily tighten mounting bolts in the order (a) (b), then tighten them to specified torque.



- Install support bearing bracket (1) in following procedure.(VQ35DE)
 - Temporarily tighten mounting bolts (A), then tighten them to specified torque.
 - Temporarily tighten mounting bolts (B), then tighten them to specified torque.



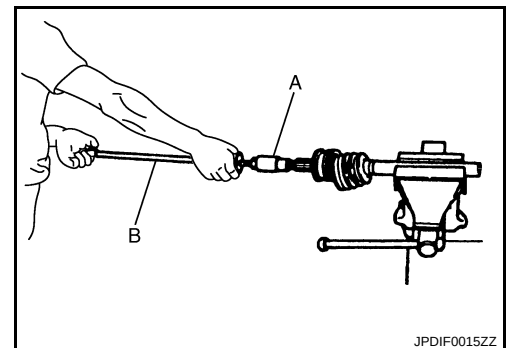
WHEEL SIDE

WHEEL SIDE : Disassembly and Assembly

INFOID:000000003811086

DISASSEMBLY

1. Fix shaft with a vise.
CAUTION:
Protect shaft using aluminum or copper plates when fixing with a vise.
2. Remove boot bands, and then remove boot from joint sub-assembly.
3. Screw drive shaft puller (A) into joint sub-assembly screw part to a length of 30 mm (1.18 in) or more. Support drive shaft with one hand and pull out joint sub-assembly with a sliding hammer (B) from shaft (VQ25DE) or housing assembly (VQ35DE).
CAUTION:
 - Align a sliding hammer and drive shaft and remove them by pulling firmly and uniformly.
 - If joint sub-assembly cannot be pulled out, try after removing drive shaft from vehicle.
4. Remove circular clip from shaft (VQ25DE) or housing assembly (VQ35DE).



FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

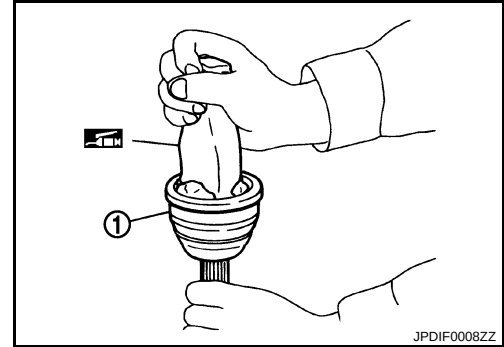
5. Remove boot from shaft (VQ25DE) or housing assembly (VQ35DE).

ASSEMBLY

1. Clean the old grease on joint sub-assembly with paper waste.
2. Fill serration slot joint sub-assembly (1) with NISSAN genuine grease or equivalent until the serration slot and ball groove become full to the brim.

CAUTION:

After applying grease, use a paper waste to wipe off old grease that has oozed out.

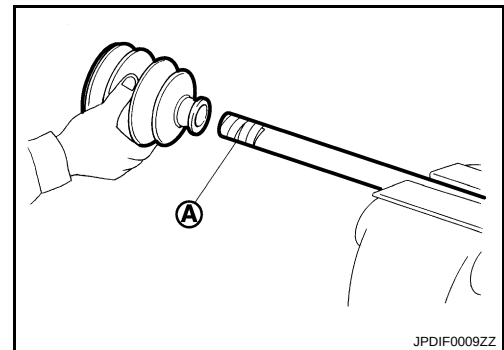


3. Wrap serration on shaft (VQ25DE) or housing assembly (VQ35DE) with tape (A) to protect the boot from damage. Install boot and boot bands to shaft (VQ25DE) or housing assembly (VQ35DE).

CAUTION:

Never reuse boot and boot band.

4. Remove the tape wrapped around the serration on shaft (VQ25DE) or housing assembly (VQ35DE).



5. Position the circular clip (1) on groove at the shaft (VQ25DE) or housing assembly (VQ35DE) edge.

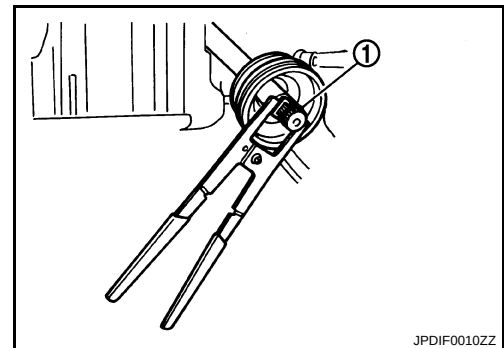
CAUTION:

Never reuse circular clip.

NOTE:

Drive joint inserter is recommended when installing circular clip.

6. Align both center axles of the shaft (VQ25DE) or housing assembly (VQ35DE) edge and joint sub-assembly. Then assemble shaft (VQ25DE) or housing assembly (VQ35DE) with circular clip joint sub-assembly.

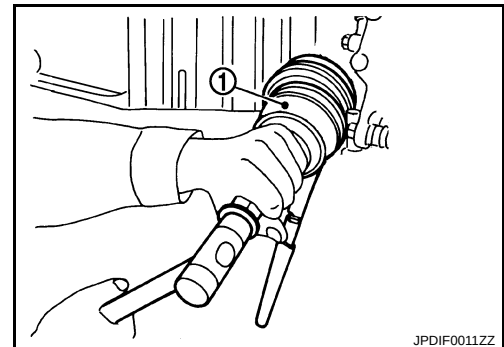


7. Install joint sub-assembly (1) to shaft (VQ25DE) or housing assembly (VQ35DE) using plastic hammer.

CAUTION:

Confirm that joint sub-assembly is correctly engaged while rotating shaft (VQ25DE) or housing assembly (VQ35DE).

8. Fill into the boot inside with the specified amount of grease from large diameter side of boot.



Standard

Grease amount : Refer to [FAX-35, "Drive Shaft"](#).

FRONT DRIVE SHAFT

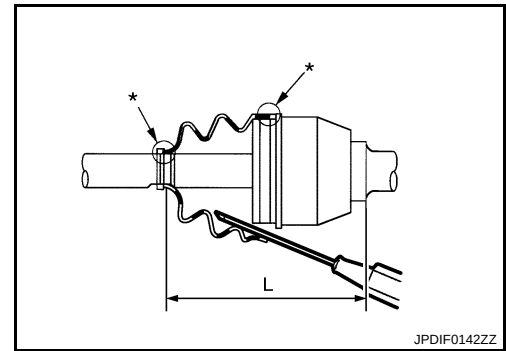
< ON-VEHICLE REPAIR >

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

CAUTION:

If grease adheres to the boot mounting surface (indicated by "*" mark) on the shaft (VQ25DE) or housing assembly (VQ35DE) or joint sub-assembly, boot may be removed. Remove all grease from the boot mounting surface.

10. To prevent from the deformation of the boot, adjust the boot installation length (L) by inserting the suitable tool into inside of the boot from the large diameter side of the boot and discharging the inside air.



Standard

L : Refer to [FAX-35, "Drive Shaft"](#).

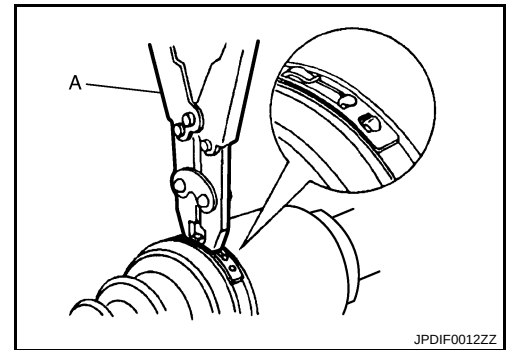
CAUTION:

- If the boot mounting length exceeds the standard, it may cause breakage in the boot.
- Be careful not to touch the inside of the boot with a tip of tool.

11. Secure the large and small ends of the boot with boot bands using the boot band crimping tool (A) (SST: KV40107300).

CAUTION:

Never reuse boot band.



NOTE:

Secure boot band so that dimension (M) meets the specification as shown in the figure.

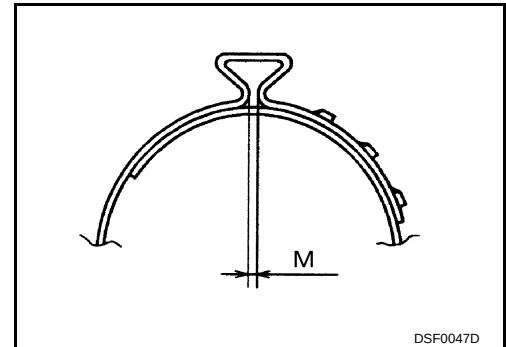
Standard

M : 1.0 – 4.0 mm (0.039 – 0.157 in)

12. Secure joint sub-assembly and shaft (VQ25DE) or housing assembly (VQ35DE), and then make sure that they are in the correct position when rotating boot. Reinstall them using boot bands when boot installation positions become incorrect.

CAUTION:

Never reuse boot band.



TRANSAXLE SIDE

TRANSAXLE SIDE : Disassembly and Assembly

INFOID:000000003811087

DISASSEMBLY (VQ25DE)

Left Side

1. Fix drive shaft with a vise.

CAUTION:

Protect shaft using aluminum or copper plates when fixing with a vise.

2. Remove boot bands, and then remove boot from housing.
3. Put matching marks on housing and shaft, and then pull out housing from shaft.

CAUTION:

Use paint or an equivalent for matching marks. Never scratch the surfaces.

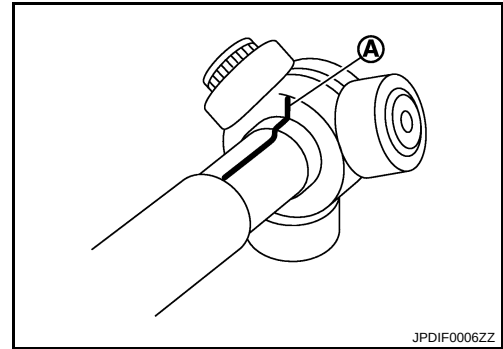
FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

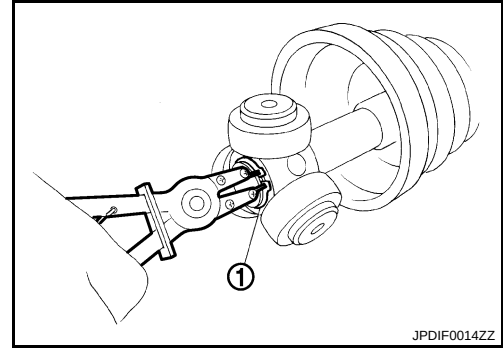
4. Put matching marks (A) on the spider assembly and shaft.

CAUTION:

Use paint or an equivalent for matching marks. Never scratch the surfaces.



5. Remove snap ring (1), and then remove spider assembly from shaft.
6. Remove boot from shaft.
7. Remove circular clip from housing.
8. Remove dust shield from housing.
9. Remove dynamic damper, follow the procedure described below.
 - a. Remove damper bands.
 - b. Remove dynamic damper from shaft.



Right Side

1. Fix drive shaft with a vise.

CAUTION:

Protect shaft using aluminum or copper plates when fixing with a vise.

2. Remove boot bands, and then remove boot from housing.
3. Put matching marks on housing and shaft, and then pull out housing from shaft.

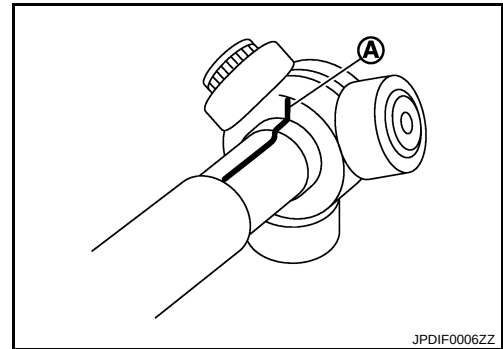
CAUTION:

Use paint or an equivalent for matching marks. Never scratch the surfaces.

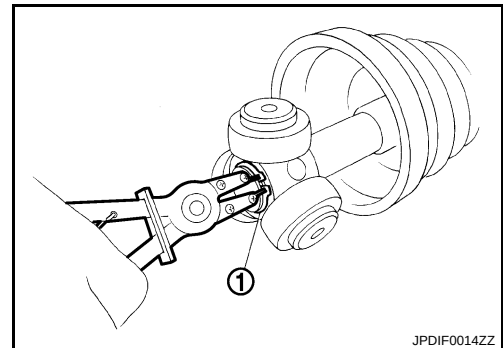
4. Put matching marks (A) on the spider assembly and shaft.

CAUTION:

Use paint or an equivalent for matching marks. Never scratch the surfaces.



5. Remove snap ring (1), and then remove spider assembly from shaft.
6. Remove boot from shaft.
7. Remove dynamic damper, follow the procedure described below.
 - a. Remove damper bands.
 - b. Remove dynamic damper from shaft.

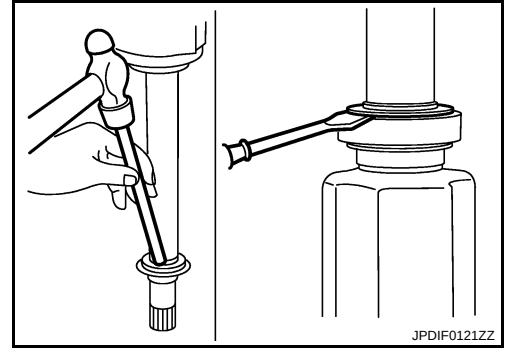


8. Remove support bearing, follow the procedure described below.

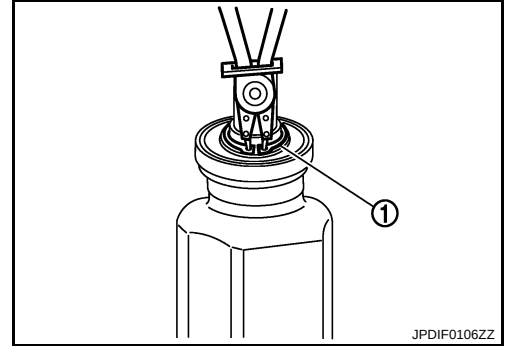
FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

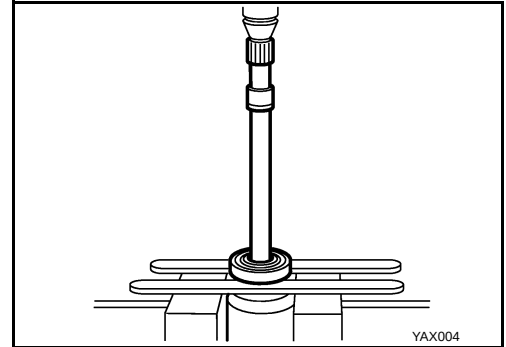
- a. Remove dust shield from housing.



- b. Remove snap ring (1).



- c. Press out support bearing from housing.
d. Remove dust shield.



DISASSEMBLY (VQ35DE)

Left Side

1. Fix drive shaft with a vise.

CAUTION:

Protect shaft using aluminum or copper plates when fixing with a vise.

2. Disassemble boot (wheel side). Refer to [FAX-20, "WHEEL SIDE : Disassembly and Assembly"](#).
3. Remove boot bands and boot (transaxle side).
4. Remove dust shield and circular clip.

Right Side

1. Fix drive shaft with a vise.

CAUTION:

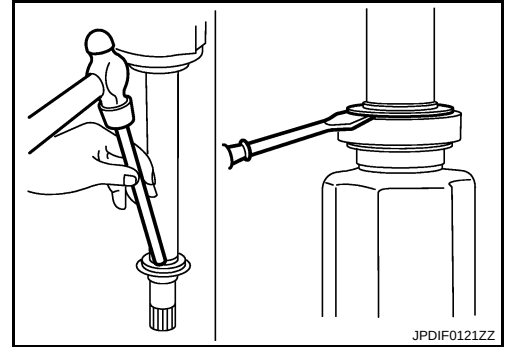
Protect shaft using aluminum or copper plates when fixing with a vise.

2. Disassemble boot (wheel side). Refer to [FAX-20, "WHEEL SIDE : Disassembly and Assembly"](#).
3. Remove dynamic damper, follow the procedure described below.
a. Remove damper band.
b. Remove dynamic damper from housing assembly.
4. Remove boot bands and boot (transaxle side).
5. Remove support bearing, follow the procedure described below.

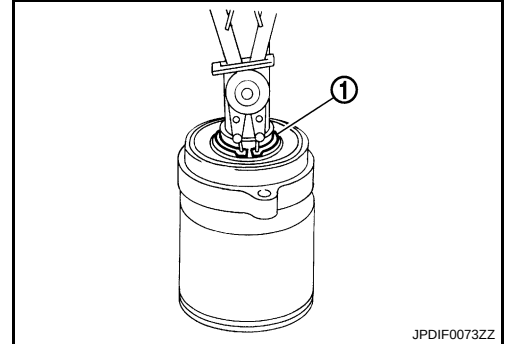
FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

a. Remove dust shield.

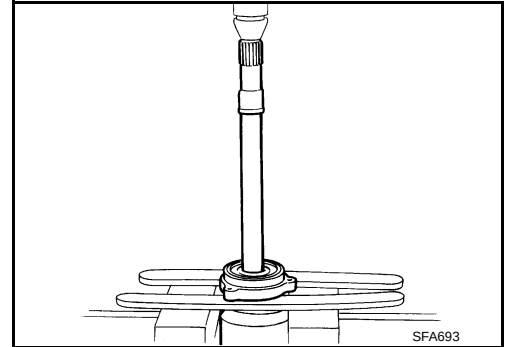


b. Remove snap ring (1).

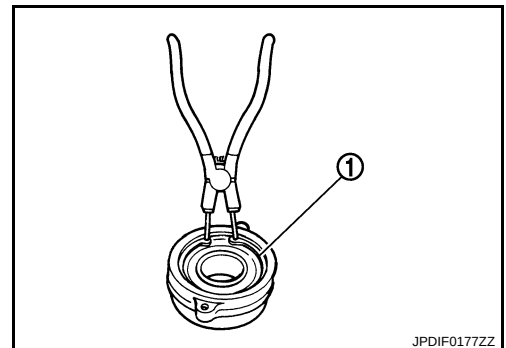


c. Press out bearing housing and support bearing from housing assembly.

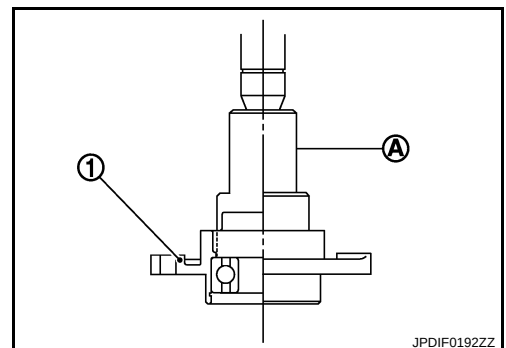
d. Remove dust shield.



e. Remove snap ring (1).



f. Press out support bearing from bearing housing (1) with suitable drift (A).



A

B

C

FAX

E

F

G

H

I

J

K

L

M

N

O

P

FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

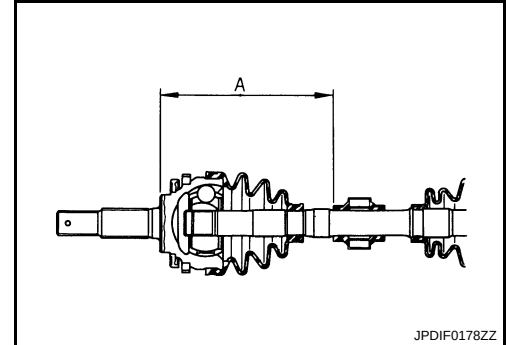
ASSEMBLY (VQ25DE)

Left side

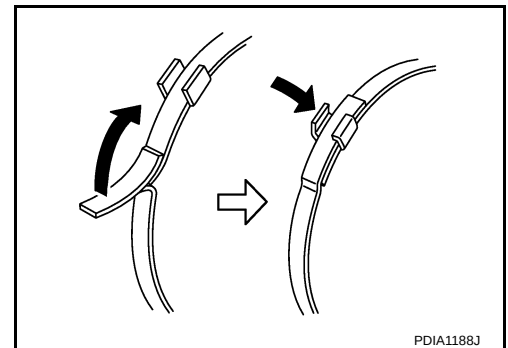
1. Clean old grease on housing with paper waste.
2. Install dust shield.
CAUTION:
Never reuse dust shield.
3. Install circular clip.
CAUTION:
Never reuse circular clip.
4. Install dynamic damper, follow the procedure described below.
 - a. Install dynamic damper to shaft.
 - b. Secure dynamic damper with bands in the following specified position (A).

Standard

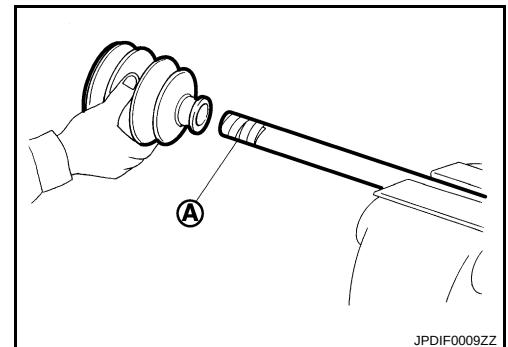
A : Refer to [FAX-35, "Drive Shaft"](#).



- c. Install damper bands securely as shown in the figure.
CAUTION:
Never reuse damper band.



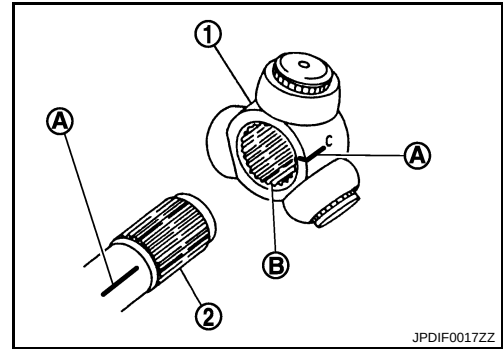
5. Wrap serration on shaft with tape (A) to protect boot from damage. Install boot and boot bands to shaft.
CAUTION:
Never reuse boot and boot band.



FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

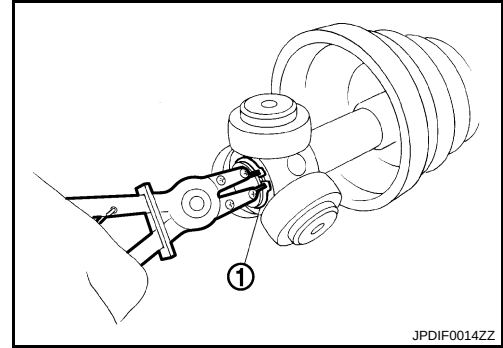
6. Install the spider assembly (1), align it with the matching marks (A) on the shaft (2) put during the removal, and direct the serration mounting surface (B) to the shaft.



7. Secure spider assembly onto shaft with snap ring (1).
CAUTION:
Never reuse snap ring.
8. Apply the appropriate amount of grease to spider assembly and sliding surface.
9. Assemble the housing onto spider assembly, and apply the balance of the specified amount grease.

Standard

Grease amount : Refer to [FAX-35, "Drive Shaft"](#).



10. Align matching marks put during the removal of housing.
11. Install boot securely into grooves (indicated by "*" marks) shown in the figure.

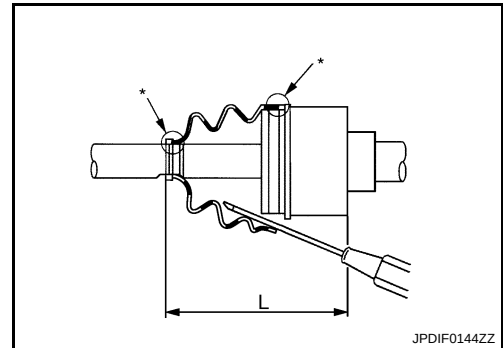
CAUTION:

If grease adheres to the boot mounting surface (indicated by "*" mark) on housing assembly, boot may be removed. Remove all grease from the boot mounting surface.

12. To prevent from deformation of the boot, adjust the boot installation length (L) by inserting the suitable tool into the inside of boot from the large diameter side of boot and discharging inside air.

Standard

L : Refer to [FAX-35, "Drive Shaft"](#).



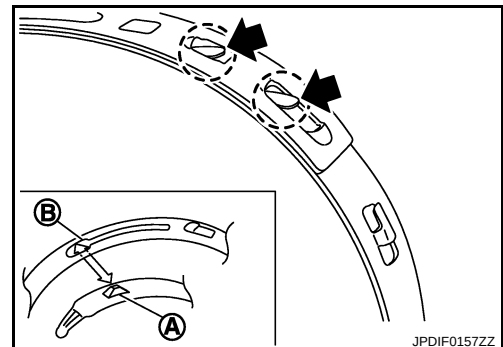
CAUTION:

- If the boot installation length exceeds the standard, it may cause breakage in boot.
- Be careful not to touch the inside of the boot with the tip of tool.

13. Install boot bands securely as shown in the figure.
 - a. Put boot band in the groove on drive shaft boot. Then fit pawls (➡) into holes to temporary installation.

NOTE:

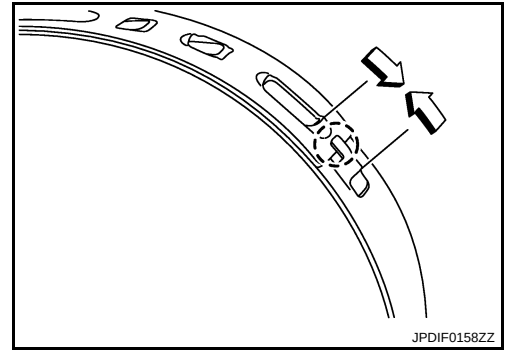
For the large diameter side, fit projection (A) and guide slit (B) at first.



FRONT DRIVE SHAFT

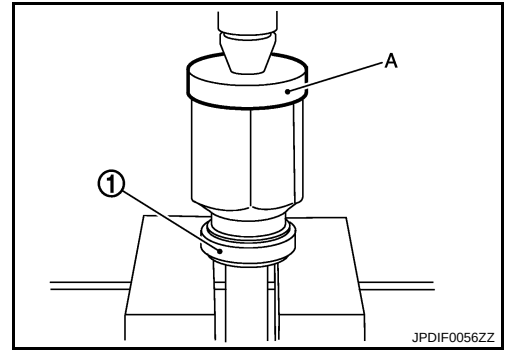
< ON-VEHICLE REPAIR >

- b. Pinch projection on the band with suitable pliers to tighten band.
- c. Insert tip of band below end of the pawl.
- 14. Secure housing assembly, and then make sure that they are in the correct position when rotating boot. Reinstall them with boot bands when the mounting positions become incorrect.

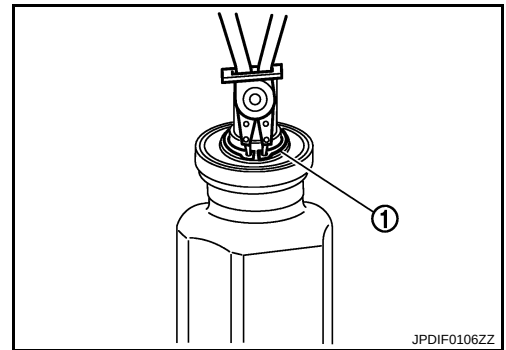


Right side

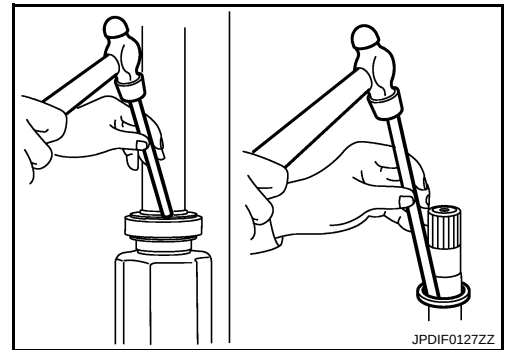
- 1. Clean old grease on housing with paper waste.
- 2. Install support bearing, follow the procedure described below.
 - a. Install dust shield on housing.
CAUTION:
Never reuse dust shield.
- b. Press support bearing (1) onto housing to using the suitable tool (A).



- c. Install snap ring (1).
CAUTION:
Never reuse snap ring.



- d. Install dust shields.
CAUTION:
Never reuse dust shield.



- 3. Install dynamic damper, follow the procedure described below.
 - a. Install dynamic damper to shaft.

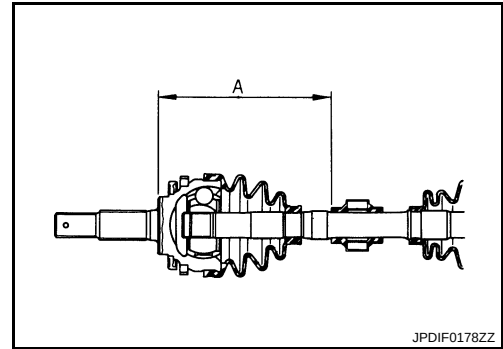
FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

- b. Secure dynamic damper with bands in the following specified position (A).

Standard

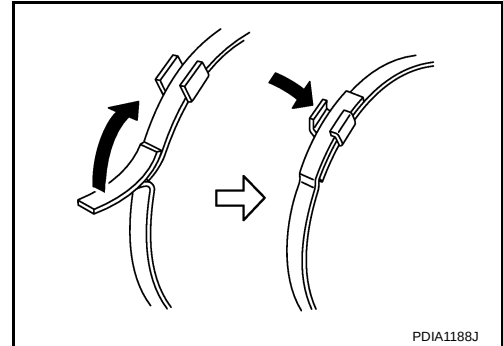
A : Refer to [FAX-35, "Drive Shaft"](#).



- c. Install damper bands securely as shown in the figure.

CAUTION:

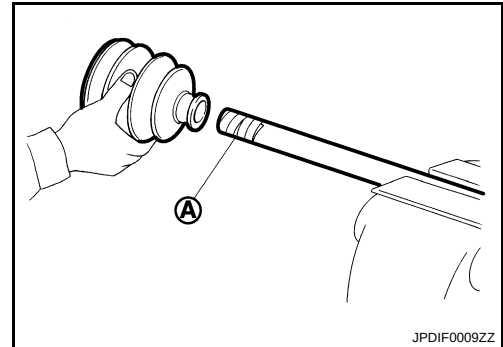
Never reuse damper band.



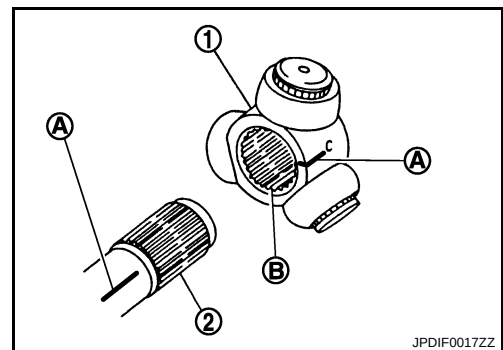
4. Wrap serration on shaft with tape (A) to protect boot from damage. Install boot and boot bands to shaft.

CAUTION:

Never reuse boot and boot band.



5. Install the spider assembly (1), align it with the matching marks (A) on the shaft (2) put during the removal, and direct the serration mounting surface (B) to the shaft.



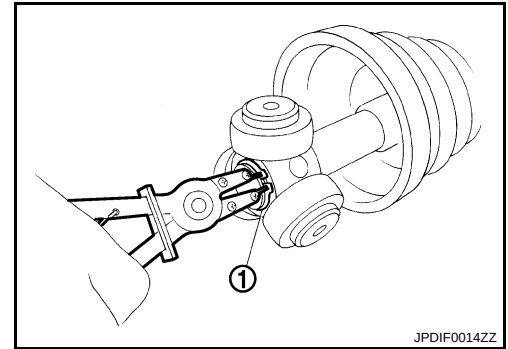
FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

6. Secure spider assembly onto shaft with snap ring (1).
CAUTION:
Never reuse snap ring.
7. Apply the appropriate amount of grease to spider assembly and sliding surface.
8. Assemble the housing onto spider assembly, and apply the balance of the specified amount grease.

Standard

Grease amount : Refer to [FAX-35, "Drive Shaft"](#).



9. Align matching marks put during the removal of housing.
10. Install boot securely into grooves (indicated by "*" marks) shown in the figure.

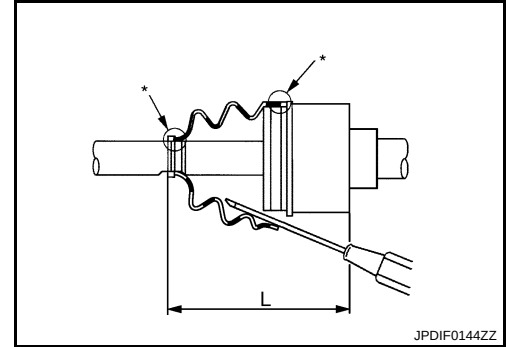
CAUTION:

If grease adheres to the boot mounting surface (indicated by "*" mark) on housing assembly, boot may be removed. Remove all grease from the boot mounting surface.

11. To prevent from deformation of the boot, adjust the boot installation length (L) by inserting the suitable tool into the inside of boot from the large diameter side of boot and discharging inside air.

Standard

L : Refer to [FAX-35, "Drive Shaft"](#).



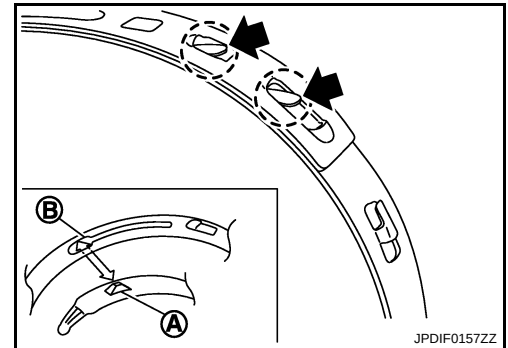
CAUTION:

- If the boot installation length exceeds the standard, it may cause breakage in boot.
- Be careful not to touch the inside of the boot with the tip of tool.

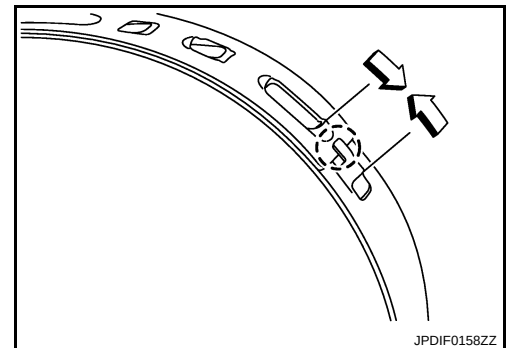
12. Install boot bands securely as shown in the figure.
 - a. Put boot band in the groove on drive shaft boot. Then fit pawls (↔) into holes to temporary installation.

NOTE:

For the large diameter side, fit projection (A) and guide slit (B) at first.



- b. Pinch projection on the band with suitable pliers to tighten band.
 - c. Insert tip of band below end of the pawl.
13. Secure housing assembly, and then make sure that they are in the correct position when rotating boot. Reinstall them with boot bands when the mounting positions become incorrect.



ASSEMBLY (VQ35DE)

Left side

1. Clean old grease on housing assembly with paper waste.
2. Install dust shield.

CAUTION:

FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

Never reuse dust shield.

3. Install circular clip.

CAUTION:

Never reuse circular clip.

4. Apply balance of the specified amount grease to housing assembly.

Standard

Grease amount : Refer to [FAX-35, "Drive Shaft"](#).

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

CAUTION:

If grease adheres to the boot mounting surface (indicated by "*" mark) on housing assembly, boot may be removed. Remove all grease from the boot mounting surface.

6. To prevent from deformation of the boot, adjust the boot installation length (L) by inserting the suitable tool into the inside of boot from the large diameter side of boot and discharging inside air.

Standard

L : Refer to [FAX-35, "Drive Shaft"](#).

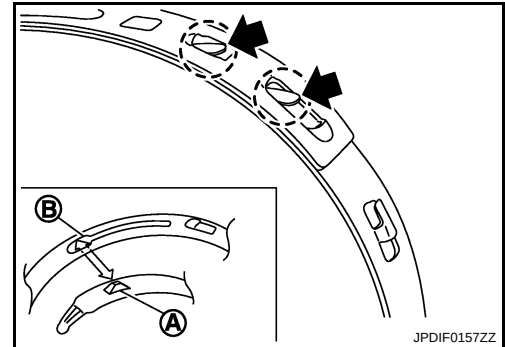
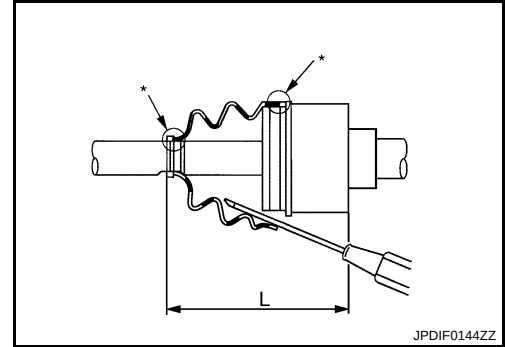
CAUTION:

- If the boot installation length exceeds the standard, it may cause breakage in boot.
- Be careful not to touch the inside of the boot with the tip of tool.

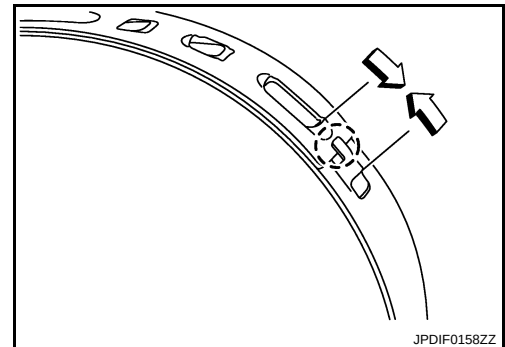
7. Install boot bands securely as shown in the figure.
 - a. Put boot band in the groove on drive shaft boot. Then fit pawls (➡) into holes to temporary installation.

NOTE:

For the large diameter side, fit projection (A) and guide slit (B) at first.



- b. Pinch projection on the band with suitable pliers to tighten band.
 - c. Insert tip of band below end of the pawl.
8. Secure housing assembly, and then make sure that they are in the correct position when rotating boot. Reinstall them with boot bands when the mounting positions become incorrect.
 9. Assemble boot (wheel side). Refer to [FAX-20, "WHEEL SIDE : Disassembly and Assembly"](#).



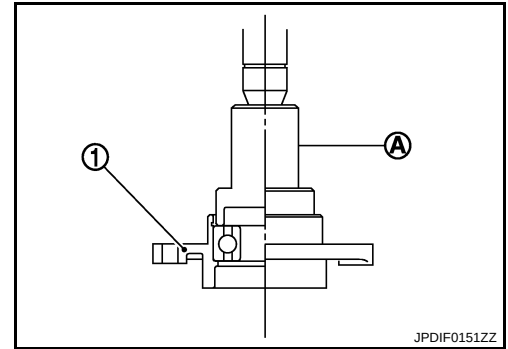
Right Side

1. Clean old grease on housing assembly with paper waste.
2. Install support bearing, follow the procedure described below.

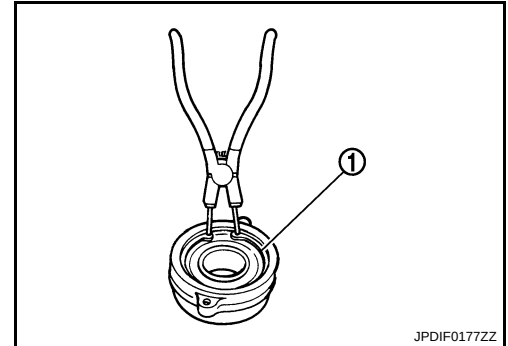
FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

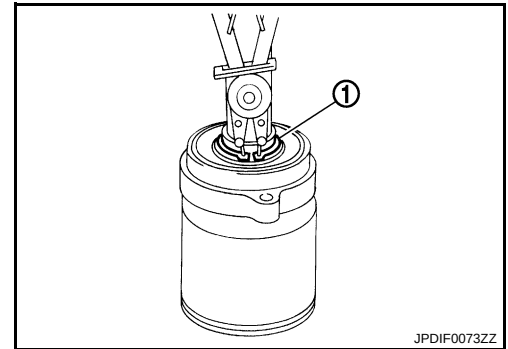
- a. Press support bearing to bearing housing (1) with suitable drift (A)



- b. Install snap ring (1).
CAUTION:
Never reuse snap ring.
- c. Install dust shield.
- d. Press bearing housing and support bearing to housing assembly.



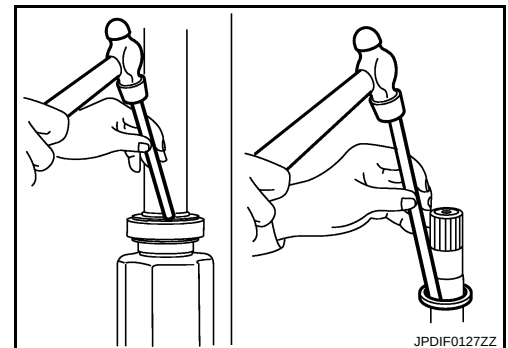
- e. Install snap ring (1).
CAUTION:
Never reuse snap ring.



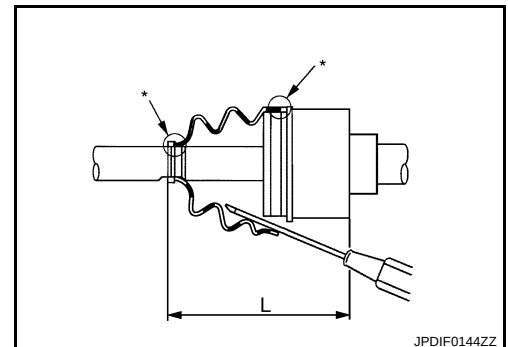
- f. Install dust shields.
CAUTION:
Never reuse dust shields.
3. Apply balance of the specified amount grease to housing assembly.

Standard

Grease amount : Refer to [FAX-35, "Drive Shaft"](#).



4. Install boot securely into grooves (indicated by "*" marks) shown in the figure.
CAUTION:
If grease adheres to the boot mounting surface (indicated by "*" mark) on housing assembly, boot may be removed. Remove all grease from the boot mounting surface.
5. To prevent from deformation of the boot, adjust the boot installation length (L) by inserting the suitable tool into the inside of boot from the large diameter side of boot and discharging inside air.



FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

Standard

L

: Refer to [FAX-35, "Drive Shaft"](#).

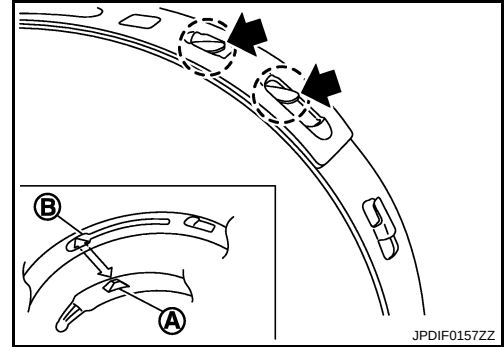
CAUTION:

- If the boot installation length exceeds the standard, it may cause breakage in boot.
- Be careful not to touch the inside of the boot with the tip of tool.

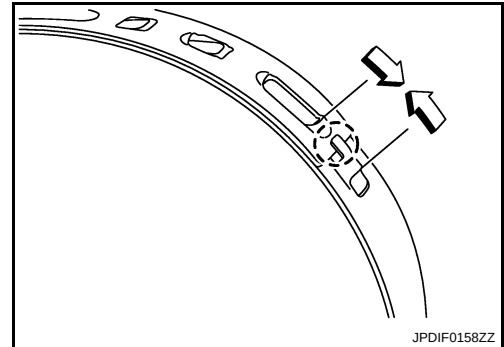
6. Install boot bands securely as shown in the figure.
- a. Put boot band in the groove on drive shaft boot. Then fit pawls (➡) into holes to temporary installation.

NOTE:

For the large diameter side, fit projection (A) and guide slit (B) at first.



- b. Pinch projection on the band with suitable pliers to tighten band.
- c. Insert tip of band below end of the pawl.
7. Secure housing assembly, and then make sure that they are in the correct position when rotating boot. Reinstall them with boot bands when the mounting positions become incorrect.
8. Install dynamic damper, follow the procedure described below.
- a. Install dynamic damper to shaft.
- b. Assemble boot (wheel side) and joint sub-assembly. Refer to [FAX-20, "WHEEL SIDE : Disassembly and Assembly"](#).



- c. Secure dynamic damper with band in the following specified position (A) when installing.

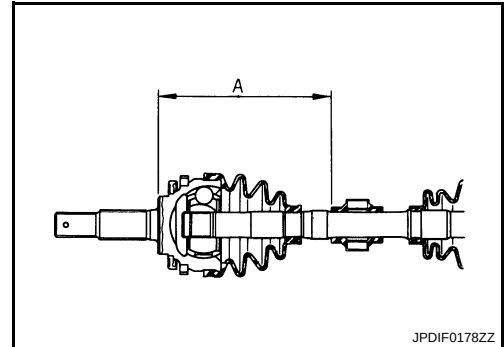
CAUTION:

Never reuse bands.

Standard

A

: Refer to [FAX-35, "Drive Shaft"](#).



Inspection

INFOID:000000003811088

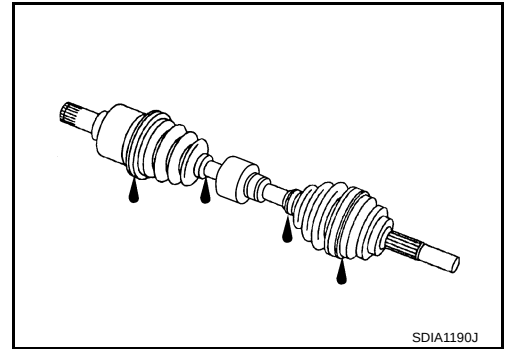
INSPECTION AFTER REMOVAL

- Move joint up/down, left/right, and in the axial directions. Check for motion that is not smooth and for significant looseness.

FRONT DRIVE SHAFT

< ON-VEHICLE REPAIR >

- Check boot for cracks, damage, and leakage of grease.
- Disassemble drive shaft and exchange malfunctioning part if there is a non-standard condition.



INSPECTION AFTER DISASSEMBLY

Shaft

Check shaft for runout, cracks, or other damage. Replace if necessary.

Dynamic Damper

Check damper for cracks or wear. Replace if necessary.

Joint Sub-Assembly (Wheel Side)

Check the following:

- Joint sub-assembly for rough rotation and excessive axial looseness.
- The inside of the joint sub-assembly for entry of foreign material.
- Joint sub-assembly for compression scars, cracks, and fractures inside of joint sub-assembly.

Replace joint sub-assembly if there are any non-standard conditions of components.

Housing or housing assembly (Transaxle Side)

Replace housing assembly if there is scratching or wear of housing assembly roller contact surface.

Support Bearing (Right Side)

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

Support Bearing Bracket (Right Side)

Check for bending, cracks, or damage. Replace if necessary.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Wheel Bearing

INFOID:0000000003811089

Item	Standard
Axial end play	0.05 mm (0.002 in) or less

Drive Shaft

INFOID:0000000003811090

VQ25DE

Item		Left side	Right side
Grease quantity	Wheel side	88 – 108 g (3.11 – 3.80 oz)	
	Transaxle side	153 – 166 g (5.40 – 5.85 oz)	
Boots installed length	Wheel side	186.7 mm (7.35 in)	
	Transaxle side	153.4 mm (6.04 in)	
Dimension of dynamic damper		207 – 213 mm (8.15 – 8.39 in)	

VQ35DE

Item		Left side	Right side
Grease quantity	Wheel side	170 – 190 g (6.00 – 6.70 oz)	
	Transaxle side	155 – 175 g (5.47 – 6.17 oz)	
Boots installed length	Wheel side	158.6 mm (6.24 in)	
	Transaxle side	163.67 mm (6.44 in)	
Dimension of dynamic damper		—	202 – 208 mm (7.95 – 8.19 in)