

SECTION FAX
FRONT AXLE

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FAX

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".**
- **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.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

Precautions for Drive Shaft

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- **Observe the following precautions when disassembling and assembling drive shaft.**
 - Never disassemble joint sub-assembly because it is non-overhaul parts.
 - Perform work in a location which is as dust-free as possible.
 - Clean the parts, before disassembling and assembling.
 - Prevent the entry of foreign objects during disassembly of the service location.
 - Reassemble disassembled parts carefully in the correct order. If work is interrupted, a clean cover must be placed over parts.
 - Use paper waste. Fabric shop cloths must not be used because of the danger of lint adhering to parts.
 - Clean disassembled parts (except for rubber parts) with kerosene which shall be removed by blowing with air or wiping with paper waste.

PREPARATION

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PREPARATION

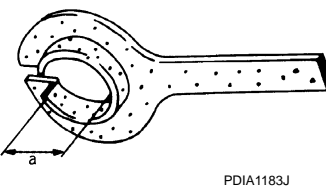
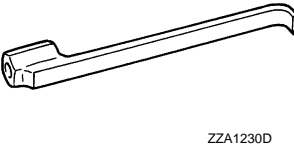
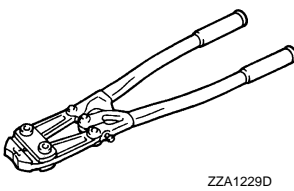
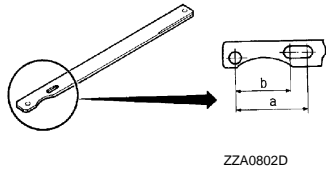
PREPARATION

Special Service Tool

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

| Tool number (Kent-More No.) Tool name | Description |
|--|---|
| KV40104000 (—) Hub lock nut wrench a: 85 mm (3.35 in) b: 65 mm (2.56 in) | Removing and Installing wheel hub lock nut. |
| KV40107300 (—) Boot band crimping tool | Installing boot band |
| KV40107500 (—) Drive shaft attachment | Removing drive shaft |
| KV38107900 (—) Protector a: 32 mm (1.26 in) dia. | Installing drive shaft |



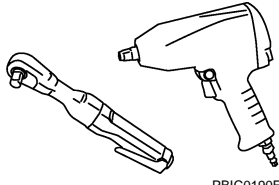
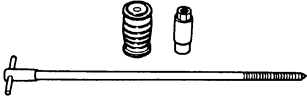
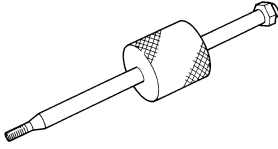
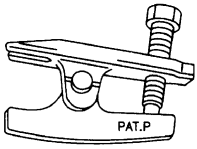
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PREPARATION

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Commercial Service Tools

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| Tool name | Description |
|---|--|
| <p>Power tool</p>  <p>PBIC0190E</p> | <p>Loosening bolts and nuts</p> |
| <p>Drive shaft puller</p>  <p>JPDIG0152ZZ</p> | <p>Removing drive shaft joint sub assembly</p> |
| <p>Sliding hammer</p>  <p>ZZA0023D</p> | <p>Removing drive shaft</p> |
| <p>Ball joint remover</p>  <p>PAT.P</p> <p>NT146</p> | <p>Removing hub bolt</p> |

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

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

| Reference | | | — | FAX-31, "Inspection" | — | FAX-8, "Exploded View" | — | FAX-10, "Inspection" | 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 | x | x | | | | x | x | x | x | x | x | x | x | |
| | | Shake | x | | x | | | x | x | x | x | x | | x | x | |
| | FRONT AXLE | Noise | | | | x | x | x | x | | x | x | x | x | x | x |
| | | Shake | | | | x | x | x | x | | x | x | x | x | x | x |
| | | Vibration | | | | x | x | x | x | | x | | x | | x | |
| | | Shimmy | | | | x | x | | x | | x | x | | x | x | x |
| | | Judder | | | | x | | | x | | x | x | | x | x | x |
| | | Poor quality ride or handling | | | | x | x | | x | | x | x | | | | |

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FAX

FRONT WHEEL HUB AND KNUCKLE

< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE

FRONT WHEEL HUB AND KNUCKLE

Inspection

INFOID:000000007580022

COMPONENT PART

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

WHEEL HUB ASSEMBLY (BEARING-INTEGRATED TYPE)

Check the following items, and replace the part if necessary.

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

Axial end play : Refer to [FAX-32. "Wheel Bearing"](#).

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

FRONT DRIVE SHAFT

< PERIODIC MAINTENANCE >

FRONT DRIVE SHAFT

Inspection

INFOID:000000007580023

Check the following items, and replace the part if necessary.

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

CAUTION:

Replace entire drive shaft assembly when noise or vibration occurs from drive shaft.

- Check boot for cracks and other damage.

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FRONT WHEEL HUB AND KNUCKLE

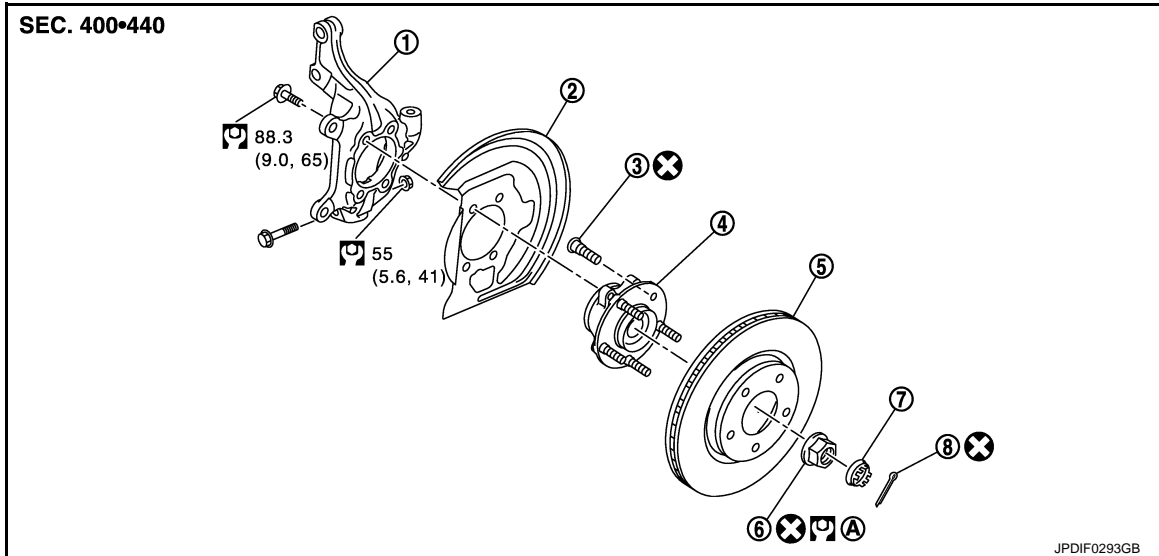
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

FRONT WHEEL HUB AND KNUCKLE

Exploded View

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|---|-----------------|-----------------------|
| 1. Steering knuckle | 2. Splash guard | 3. Hub bolt |
| 4. Wheel hub assembly (Bearing-integrated type) | 5. Disc rotor | 6. Wheel hub lock nut |
| 7. Adjusting cap | 8. Cotter pin | |

A. Tightening must be done following the installation procedure. Refer to [FAX-8, "Removal and Installation"](#).

⊗: Always replace after every disassembly.

Ⓜ: N·m (kg·m, ft·lb)

Removal and Installation

INFOID:000000007580025

REMOVAL

1. Remove tires with power tool. Refer to [WT-43, "Removal and Installation"](#).
2. Remove wheel sensor and sensor harness. Refer to [BRC-126, "FRONT WHEEL SENSOR : Exploded View"](#).
3. Remove lock plate from strut assembly. Refer to [FSU-12, "Removal and Installation"](#).
4. Remove caliper assembly. Hang caliper assembly not to interfere with work. Refer to [BR-46, "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).

CAUTION:

Never depress brake pedal while brake caliper is removed.

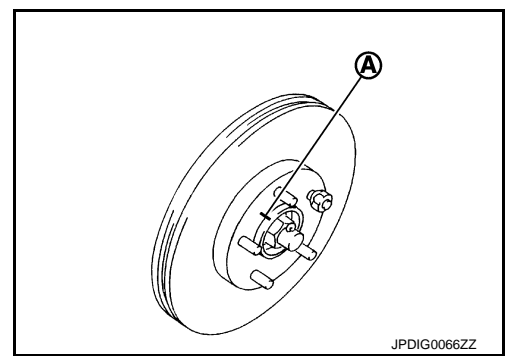
5. Remove disc rotor.

CAUTION:

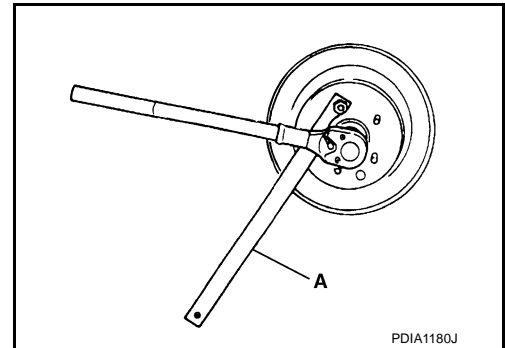
FRONT WHEEL HUB AND KNUCKLE

< REMOVAL AND INSTALLATION >

- Put matching marks (A) on the wheel hub assembly and the disc rotor before removing the disc rotor.
- Never drop disc rotor.



6. Remove cotter pin, and adjusting cap, and then loosen wheel hub lock nut, using a hub lock nut wrench (A) [SST:KV40104000 (—)].



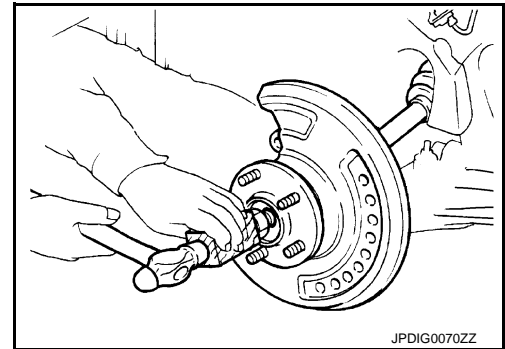
7. Patch wheel hub lock nut with a piece of wood. Hammer the wood to disengage wheel hub assembly from drive shaft.

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 assembly and drive shaft cannot be separated even after performing the above procedure.



8. Remove wheel hub lock nut.
9. Remove steering outer socket from steering knuckle. Refer to [ST-15, "Removal and Installation"](#).

10. Remove strut assembly from steering knuckle. Refer to [FSU-8, "Removal and Installation"](#).

11. Suspend the drive shaft with suitable wire.
12. Remove steering knuckle from transverse link.

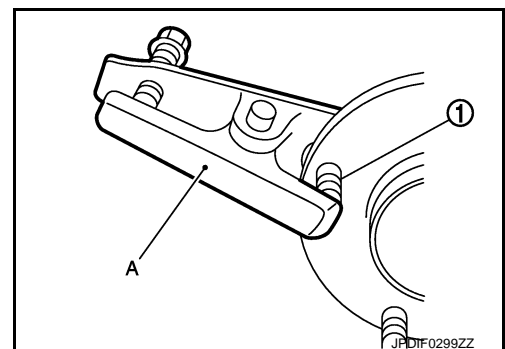
13. Remove wheel hub assembly and splash guard from steering knuckle.

14. Remove hub bolts (1) from wheel hub assembly, using the ball joint remover (A) (commercial service tool).

CAUTION:

- Remove hub bolt only when necessary.
- Never hammer the hub bolt to avoid impact to the wheel hub assembly.
- Pull out the hub bolt in a direction perpendicular to the wheel hub assembly.

15. Perform inspection after removal. Refer to [FAX-10, "Inspection"](#).



INSTALLATION

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

FRONT WHEEL HUB AND KNUCKLE

< REMOVAL AND INSTALLATION >

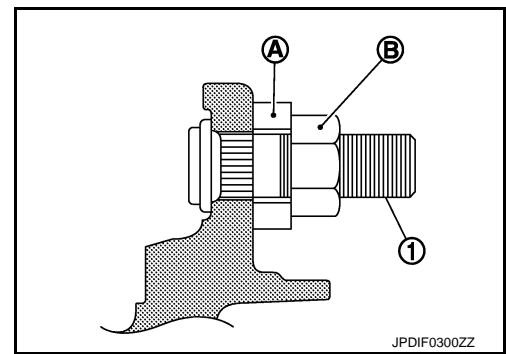
- Place a washer (A) as shown in the figure to install the hub bolts (1) by using the tightening force of the nut (B).

CAUTION:

- Check that there is no clearance between wheel hub assembly, and hub bolt.
- Never reuse hub bolt.
- Never reuse steering knuckle and transverse link fixing nut.
- Clean the matching surface of wheel hub lock nut and wheel hub assembly.

CAUTION:

Never apply lubricating oil to these matching surface.



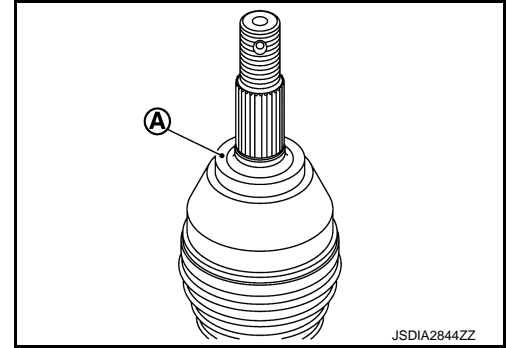
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- Clean the matching surface of drive shaft, wheel hub assembly. And then apply paste [service parts (440037S000)] to surface (A) of joint sub-assembly of drive shaft.

CAUTION:


Apply paste to cover entire flat surface of joint sub-assembly of drive shaft.

Amount paste : 1.0 – 3.0 g (0.04 – 0.10 oz)



JSDIA2844ZZ

- Use the following torque range for tightening the wheel hub lock nut.

 : 180 – 185 N·m (18.4 – 18.8 kg·m, 133 – 136 ft·lb)

CAUTION:

- Since the drive shaft is assembled by press-fitting, use the tightening torque range for the wheel hub lock nut.
- Be sure to use torque wrench to tighten the wheel hub lock nut. Never use a power tool.
- Never reuse wheel hub lock nut.

NOTE:

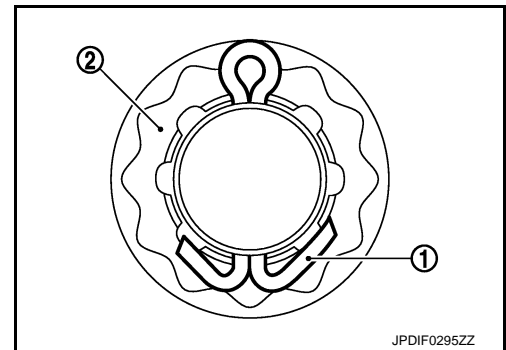
Wheel hub lock nut tightening torque does not over torque for avoiding axle noise, and does not less than torque for avoiding looseness.

- Align the matching marks that have been made during removal when reusing the disc rotor.
- When installing a cotter pin (1) and adjusting cap (2), securely bend the basal portion to prevent rattles.

CAUTION:

Never reuse cotter pin.

- Perform the final tightening of each of parts under unladen conditions, which were removed when removing wheel hub assembly and steering knuckle.
- Perform inspection after installation. Refer to [FAX-10, "Inspection"](#).



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Inspection

INSPECTION AFTER REMOVAL

Check the following items, and replace the part if necessary.

- Check components for deformation, cracks, and other damage.
- Check boots of transverse link and steering outer socket ball joint for breakage, axial end play, and swing torque. Refer to [FSU-12, "Inspection"](#) and [ST-17, "Inspection"](#).

INSPECTION AFTER INSTALLATION

FRONT WHEEL HUB AND KNUCKLE

< REMOVAL AND INSTALLATION >

1. Check wheel sensor harness for proper connection. Refer to [BRC-126. "FRONT WHEEL SENSOR : Exploded View"](#).
2. Check the wheel alignment. Refer to [FSU-6. "Inspection"](#).
3. Adjust neutral position of steering angle sensor. Refer to [BRC-56. "Work Procedure"](#).

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FRONT DRIVE SHAFT BOOT

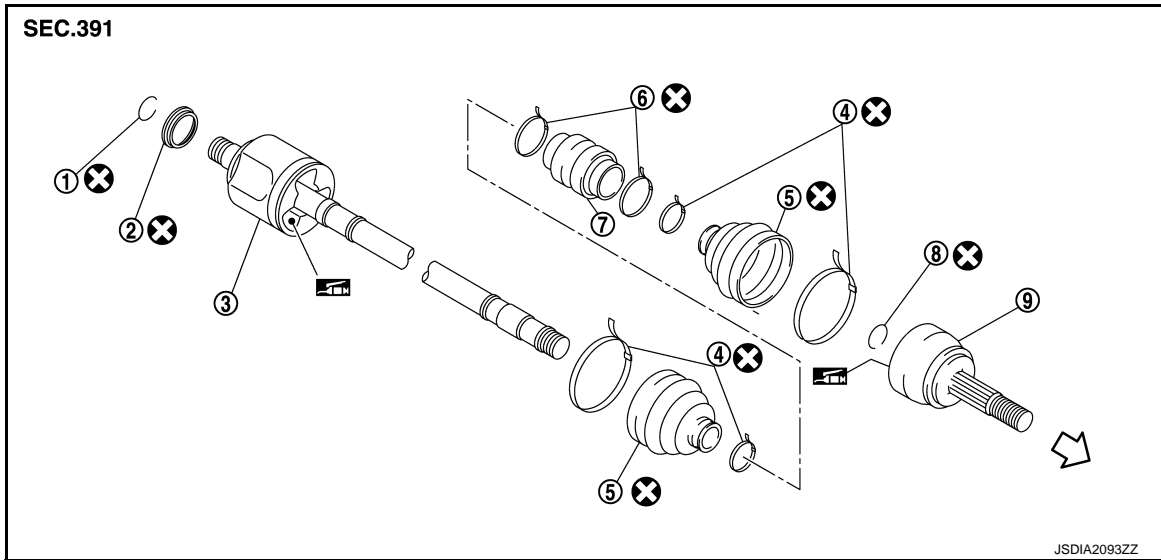
< REMOVAL AND INSTALLATION >

FRONT DRIVE SHAFT BOOT

Exploded View

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LEFT SIDE



- | | | |
|-------------------|------------------|-----------------------|
| 1. Circular clip | 2. Dust shield | 3. Housing assembly |
| 4. Boot band | 5. Boot | 6. Damper band |
| 7. Dynamic damper | 8. Circular clip | 9. Joint sub-assembly |

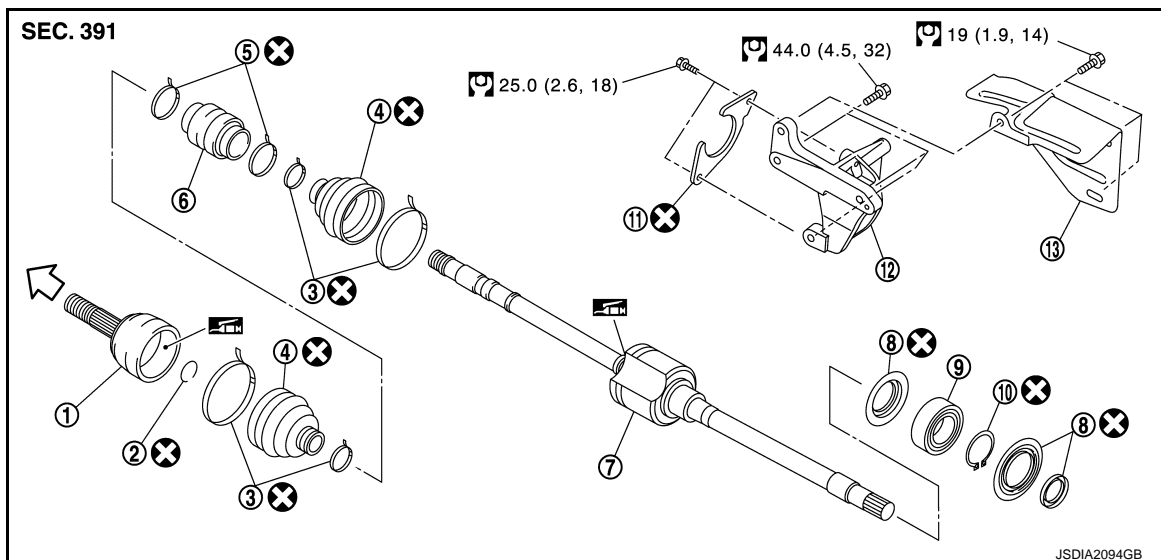
← : Wheel side

: Fill NISSAN Genuine grease or equivalent.

: Always replace after every disassembly.

RIGHT SIDE

2WD




- | | | |
|-----------------------|------------------|-----------------------------|
| 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. Support bearing |
| 10. Snap ring | 11. Plate | 12. Support bearing bracket |

FRONT DRIVE SHAFT BOOT


< REMOVAL AND INSTALLATION >

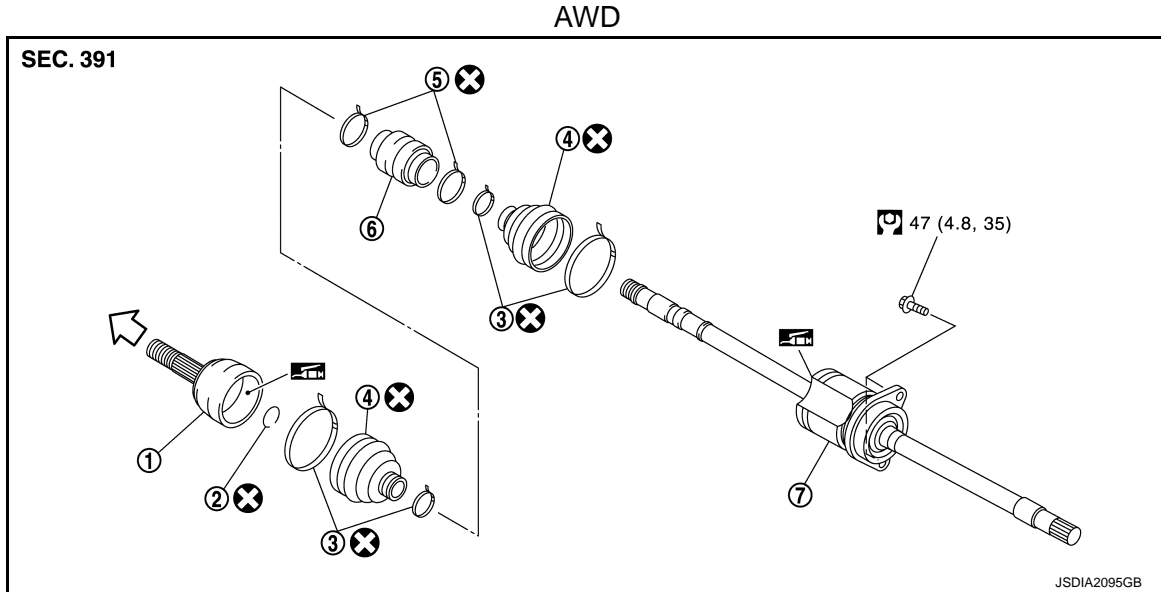
13. Heat insulator

↩ : Wheel side

 : Fill NISSAN Genuine grease or equivalent.

 : Always replace after every disassembly.

 : N·m (kg·m, ft·lb)



1. Joint sub-assembly

2. Circular clip

3. Boot band


4. Boot

5. Damper band


6. Dynamic damper

7. Housing assembly

↩ : Wheel side

 : Fill NISSAN Genuine grease or equivalent.

 : Always replace after every disassembly.

 : N·m (kg·m, ft·lb)

WHEEL SIDE

WHEEL SIDE : Removal and Installation

INFOID:000000007580028

REMOVAL

1. Remove tires with power tool. Refer to [WT-43. "Removal and Installation"](#).
2. Remove wheel sensor and sensor harness. Refer to [BRC-126. "FRONT WHEEL SENSOR : Exploded View"](#).
3. Remove lock plate from strut assembly. Refer to [FSU-12. "Removal and Installation"](#).
4. Remove caliper assembly. Hang caliper assembly not to interfere with work. Refer to [BR-46. "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).
CAUTION:
Never depress brake pedal while brake caliper is removed.
5. Remove disc rotor. Refer to [FAX-8. "Removal and Installation"](#).
6. Remove cotter pin, and adjusting cap, and then loosen wheel hub lock nut with power tool. Refer to [FAX-8. "Removal and Installation"](#).

FRONT DRIVE SHAFT BOOT

< REMOVAL AND INSTALLATION >

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

NOTE:

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

8. Remove wheel hub lock nut. Refer to [FAX-8, "Removal and Installation"](#).
9. Remove strut assembly from steering knuckle. Refer to [FSU-8, "Removal and Installation"](#).
10. Remove drive shaft from wheel hub 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.

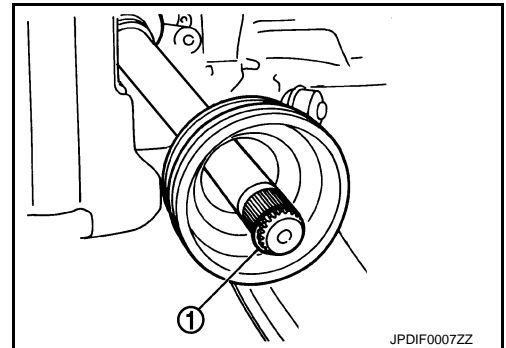
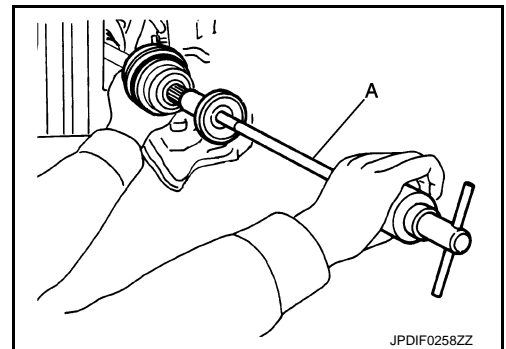
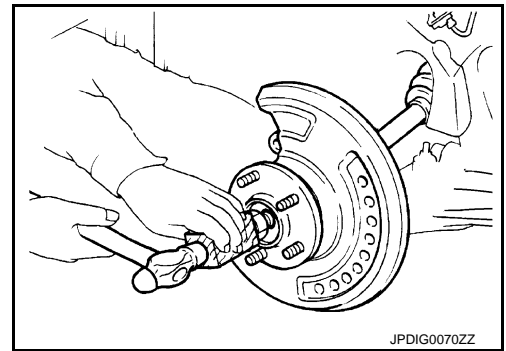
11. Remove boot bands, and then remove boot from joint sub-assembly.

12. Screw drive shaft puller (A) (commercial service tool) 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 from shaft.

CAUTION:

- Align drive shaft puller 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. Refer to [FAX-24, "WHEEL SIDE : Disassembly and Assembly"](#).

13. Remove circular clip (1) from shaft.
14. Remove boot from shaft.



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:

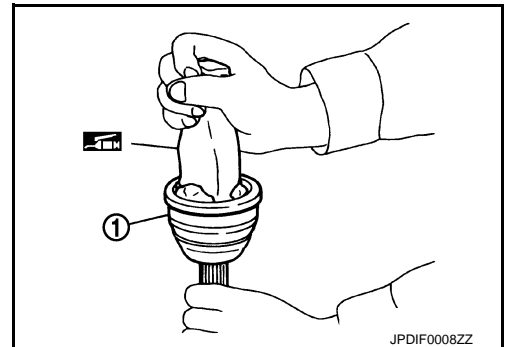
After applying grease, use a paper waste to wipe off old grease that has oozed out.

3. Install boot and boot bands to shaft.

CAUTION:

- Wrap serration on shaft with tape to protect the boot from damage.
- Never reuse boot and boot band.

4. Remove the tape wrapped around the serration on shaft.



FRONT DRIVE SHAFT BOOT

< REMOVAL AND INSTALLATION >

5. Position the circular clip (1) on groove at the shaft edge.

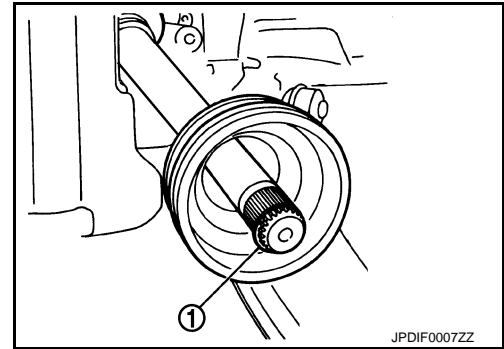
CAUTION:

Never reuse circular clip.

NOTE:

Drive joint inserter is recommended when installing circular clip.

6. Align both center axes of the shaft edge and joint sub-assembly. Then assemble shaft with joint sub-assembly holding circular clip.



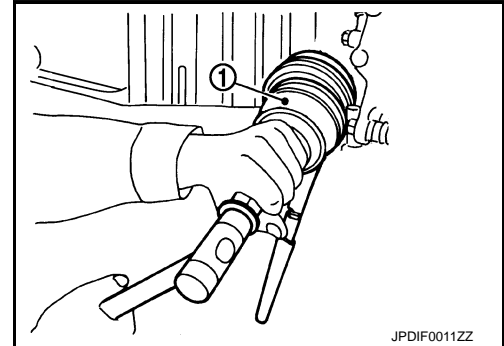
7. Install joint sub-assembly (1) to shaft using plastic hammer.

CAUTION:

- Check circular clip is properly positioned on groove of the joint sub-assembly.
- Confirm that joint sub-assembly is correctly engaged while rotating drive shaft.

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

Grease amount : Refer to [FAX-32, "Drive Shaft"](#).



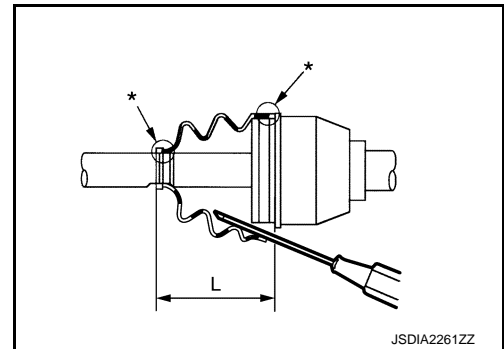
9. Install the boot securely into grooves (indicated by "*" marks) shown in the figure.

CAUTION:

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

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

L : Refer to [FAX-32, "Drive Shaft"](#).



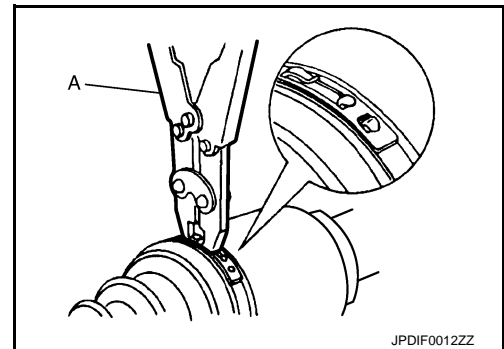
CAUTION:

- If the boot installation length exceeds the standard, it may cause breakage of 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.



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FRONT DRIVE SHAFT BOOT

< REMOVAL AND INSTALLATION >

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

A

2WD : 5.0 mm (0.197 in) or less.

AWD : 7.0 mm (0.276 in) or less.

12. Check that displacement does not occur when boot is rotated with the joint sub-assembly and shaft fixed.

CAUTION:

- Reinstall them using boot bands when boot installation positions become incorrect.
- Never reuse boot band.

13. Clean the matching surface of wheel hub lock nut and wheel hub assembly.

CAUTION:

Never apply lubricating oil to these matching surface.

14. Clean the matching surface of drive shaft, wheel hub assembly. And then apply paste [service parts (440037S000)] to surface (A) of joint sub-assembly of drive shaft.

CAUTION:

Apply paste to cover entire flat surface of joint sub-assembly of drive shaft.

Amount paste : 1.0 – 3.0 g (0.04 – 0.10 oz)

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

CAUTION:

Be sure to use torque wrench to tighten the wheel hub lock nut. Never use a power tool.

16. Install strut assembly to steering knuckle. Refer to [FSU-8, "Exploded View"](#).


17. Install disc rotor. Refer to [FAX-8, "Removal and Installation"](#).

18. Install caliper assembly to steering knuckle. Refer to [BR-46, "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).

19. Install lock plate to strut assembly. Refer to [FSU-8, "Removal and Installation"](#).

20. Install wheel sensor and sensor harness. Refer to [BRC-126, "FRONT WHEEL SENSOR : Exploded View"](#).

21. Use the following torque range for tightening the wheel hub lock nut.

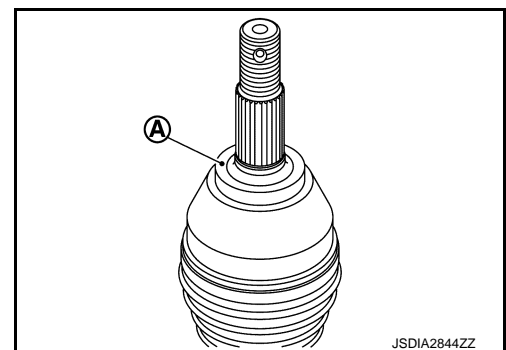
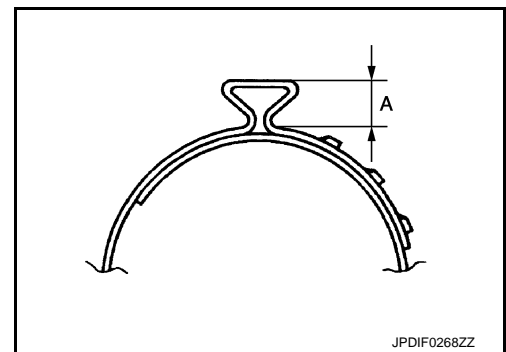
 : **180 – 185 N·m (18.4 – 18.8 kg·m, 133 – 136 ft·lb)**

CAUTION:

- Since the drive shaft is assembled by press-fitting, use the tightening torque range for the wheel hub lock nut.
- Be sure to use torque wrench to tighten the wheel hub lock nut. Never use a power tool.
- Never reuse wheel hub lock nut.

NOTE:

Wheel hub lock nut tightening torque does not over torque for avoiding axle noise, and does not less than torque for avoiding looseness.



FRONT DRIVE SHAFT BOOT

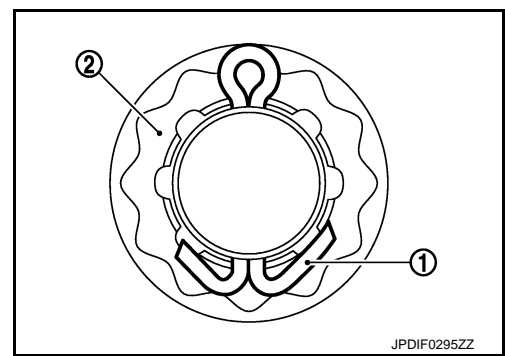
< REMOVAL AND INSTALLATION >

22. When installing a cotter pin (1) and adjusting cap (2), securely bend the basal portion to prevent rattles.

CAUTION:

Never reuse cotter pin.

23. Install tires. Refer to [WT-43, "Removal and Installation"](#).
24. Perform inspection after installation. Refer to [FAX-17, "Inspection"](#).



TRANSAXLE SIDE

TRANSAXLE SIDE : Removal and Installation

INFOID:000000007580029

Remove boot after drive shaft is removed from the vehicle.

- For drive shaft removal and installation, refer to [FAX-19, "LEFT SIDE : Removal and Installation"](#) (LEFT SIDE) or [FAX-21, "RIGHT SIDE : Removal and Installation"](#) (RIGHT SIDE).
- For drive shaft disassembly and assembly, refer to [FAX-26, "TRANSAXLE SIDE : Disassembly and Assembly"](#).

Inspection

INFOID:000000007580030

INSPECTION AFTER INSTALLATION

1. Check wheel sensor harness for proper connection. Refer to [BRC-126, "FRONT WHEEL SENSOR : Exploded View"](#).
2. Check the wheel alignment. Refer to [FSU-6, "Inspection"](#).
3. Adjust neutral position of steering angle sensor. Refer to [BRC-56, "Work Procedure"](#).

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FRONT DRIVE SHAFT

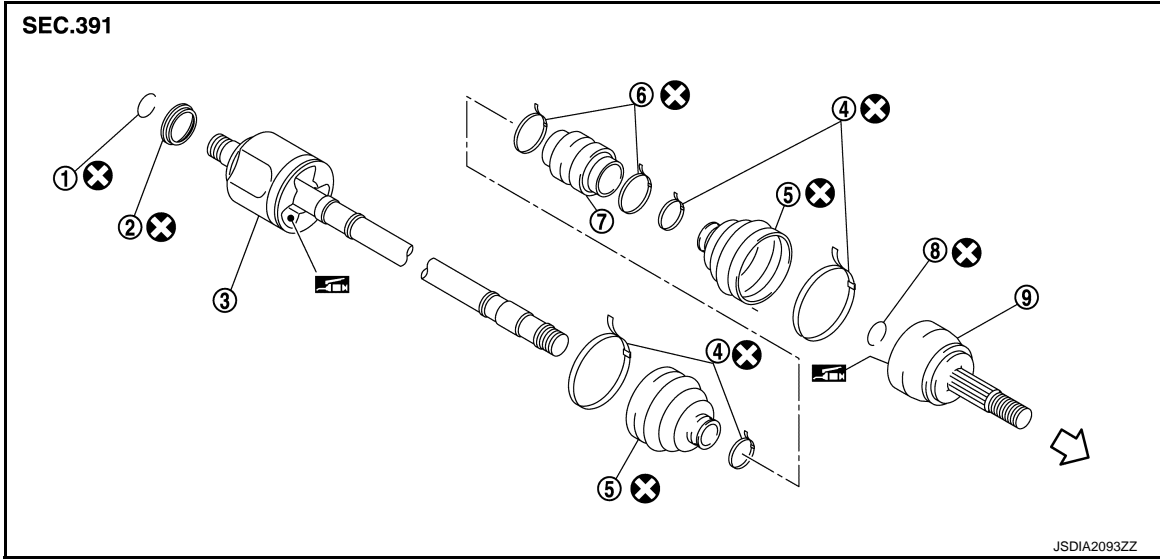
< REMOVAL AND INSTALLATION >

FRONT DRIVE SHAFT

Exploded View

INFOID:000000007580031

LEFT SIDE



- | | | |
|-------------------|------------------|-----------------------|
| 1. Circular clip | 2. Dust shield | 3. Housing assembly |
| 4. Boot band | 5. Boot | 6. Damper band |
| 7. Dynamic damper | 8. Circular clip | 9. Joint sub-assembly |

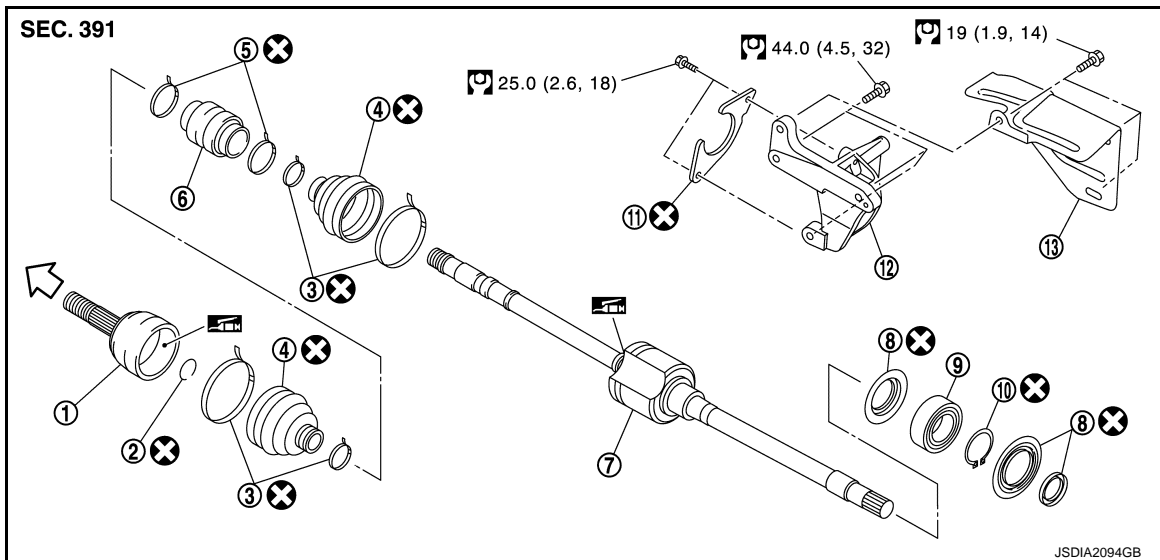
← : Wheel side

: Fill NISSAN Genuine grease or equivalent.

: Always replace after every disassembly.

RIGHT SIDE

2WD




- | | | |
|-----------------------|------------------|-----------------------------|
| 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. Support bearing |
| 10. Snap ring | 11. Plate | 12. Support bearing bracket |

FRONT DRIVE SHAFT


< REMOVAL AND INSTALLATION >

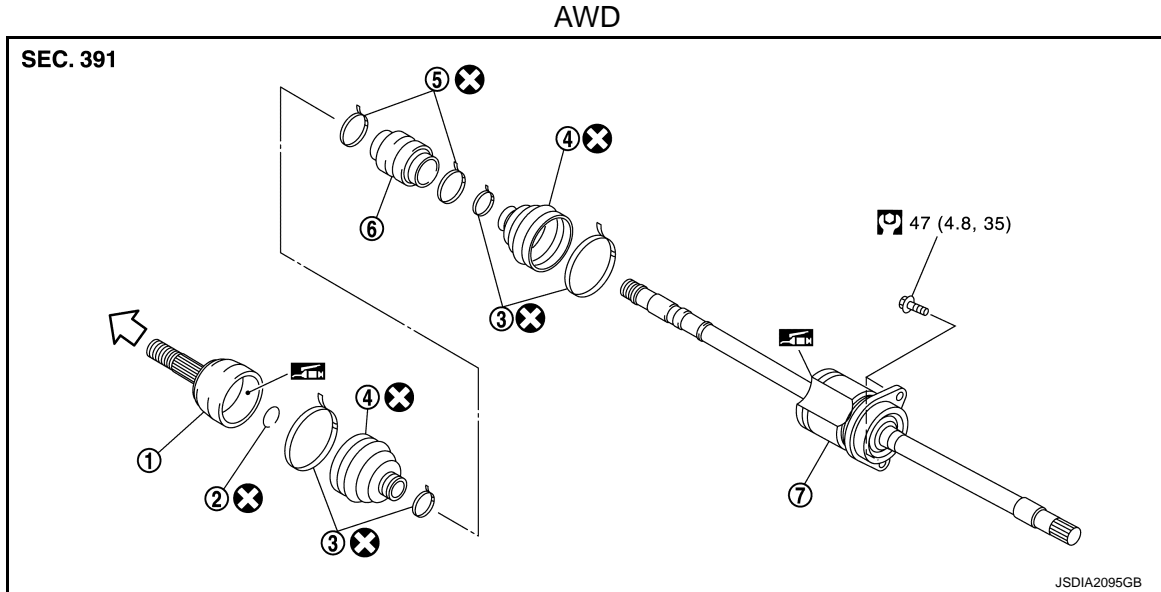
13. Heat insulator

↩ : Wheel side

 : Fill NISSAN Genuine grease or equivalent.

 : Always replace after every disassembly.

 : N·m (kg·m, ft·lb)



1. Joint sub-assembly

2. Circular clip

3. Boot band


4. Boot

5. Damper band


6. Dynamic damper

7. Housing assembly

↩ : Wheel side

 : Fill NISSAN Genuine grease or equivalent.

 : Always replace after every disassembly.

 : N·m (kg·m, ft·lb)

LEFT SIDE

LEFT SIDE : Removal and Installation

INFOID:000000007580032

REMOVAL

1. Remove tires with power tool. Refer to [WT-43. "Removal and Installation"](#).
 2. Remove wheel sensor and sensor harness. Refer to [BRC-126. "FRONT WHEEL SENSOR : Exploded View"](#).
 3. Remove lock plate from strut assembly. Refer to [FSU-8. "Removal and Installation"](#).
 4. Remove caliper assembly. Hang caliper assembly not to interfere with work. Refer to [BR-46. "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).
- CAUTION:**
Never depress brake pedal while brake caliper is removed.
5. Remove disc rotor. Refer to [FAX-8. "Removal and Installation"](#).
 6. Remove cotter pin, and adjusting cap, and then loosen wheel hub lock nut with power tool. Refer to [FAX-8. "Removal and Installation"](#).

FRONT DRIVE SHAFT

< REMOVAL AND INSTALLATION >

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

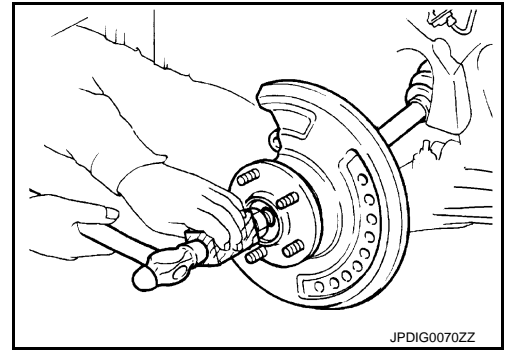
NOTE:

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

8. Remove wheel hub lock nut. Refer to [FAX-8, "Removal and Installation"](#).
9. Remove strut assembly from steering knuckle. Refer to [FSU-8, "Removal and Installation"](#).
10. Remove shaft assembly from wheel hub 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.

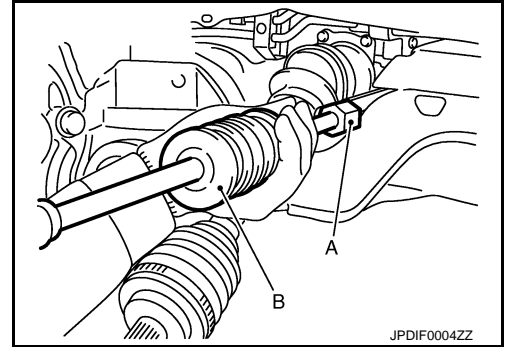


11. Use the drive shaft attachment (A) [SST:KV40107500 (—)] and a sliding hammer (B) (commercial service tool) while inserting tip of the drive shaft attachment between shaft and transaxle assembly, and then remove drive shaft from transaxle assembly.

CAUTION:

- Never place drive shaft joint at an extreme angle when removing drive shaft. Also be careful not to overextend slide joint.
- Confirm that the circular clip is attached to the drive shaft.

12. Perform inspection after installation. Refer to [FAX-31, "Inspection"](#).

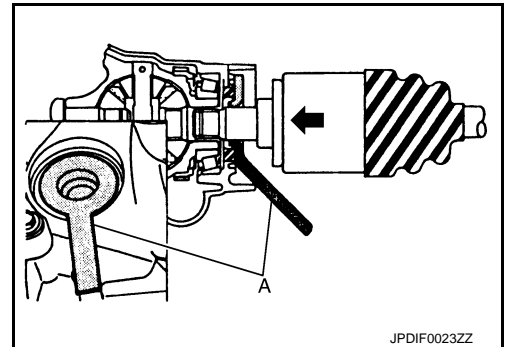


INSTALLATION

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

Transaxle Side

- Always replace differential side oil seal with new one when installing drive shaft. Refer to [TM-18, "Removal and Installation"](#) (M/T) or [TM-235, "2WD : Removal and Installation"](#) [CVT (2WD)], [TM-237, "AWD : Removal and Installation"](#) [CVT (AWD)].
 - 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:**
Check that circular clip is completely engaged.
- Perform inspection after installation. Refer to [FAX-31, "Inspection"](#).



Wheel Hub Side

- Clean the matching surface of wheel hub lock nut and wheel hub assembly.

CAUTION:

Never apply lubricating oil to these matching surface.

FRONT DRIVE SHAFT

< REMOVAL AND INSTALLATION >

- Clean the matching surface of drive shaft and wheel hub assembly. And then apply paste [service parts (440037S000)] to surface (A) of joint sub-assembly of drive shaft.

CAUTION:

Apply paste to cover entire flat surface of joint sub-assembly of drive shaft.

Amount paste : 1.0 – 3.0 g (0.04 – 0.10 oz)

- Use the following torque range for tightening the wheel hub lock nut.

 **: 180 – 185 N-m (18.4 – 18.8 kg-m, 133 – 136 ft-lb)**

CAUTION:

- **Since the drive shaft is assembled by press-fitting, use the tightening torque range for the wheel hub lock nut.**
- **Be sure to use torque wrench to tighten the wheel hub lock nut. Never use a power tool.**
- **Never reuse wheel hub lock nut.**

NOTE:

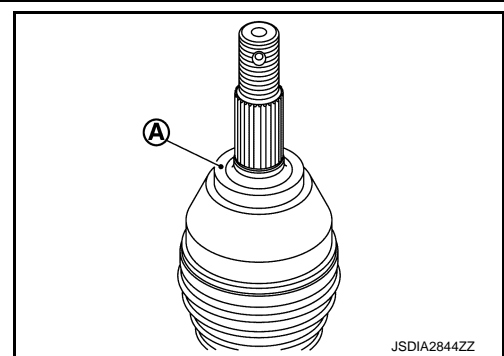
Wheel hub lock nut tightening torque does not over torque for avoiding axle noise, and does not less than torque for avoiding looseness.

- Align the matching marks that have been made during removal when reusing the disc rotor.
- When installing a cotter pin (1) and adjusting cap (2), securely bend the basal portion to prevent rattles.

CAUTION:

Never reuse cotter pin.

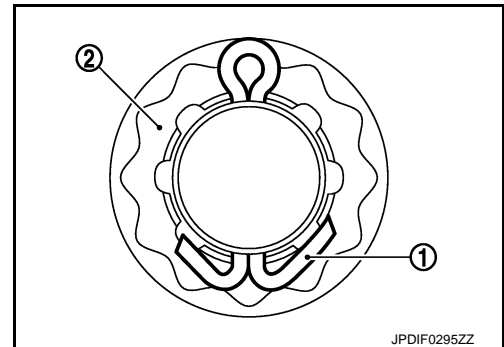
- Perform the final tightening of each of parts under unladen conditions, which were removed when removing wheel hub assembly and steering knuckle.
- Perform inspection after installation. Refer to [FAX-31, "Inspection"](#).



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RIGHT SIDE

RIGHT SIDE : Removal and Installation

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REMOVAL

1. Remove tires with power tool. Refer to [WT-43, "Removal and Installation"](#).
2. Remove wheel sensor and sensor harness if necessary. Refer to [BRC-126, "FRONT WHEEL SENSOR : Exploded View"](#).
3. Remove lock plate from strut assembly. Refer to [FSU-8, "Removal and Installation"](#).
4. Remove caliper assembly. Hang caliper assembly not to interfere with work. Refer to [BR-46, "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).

CAUTION:

Never depress brake pedal while brake caliper is removed.

5. Remove disc rotor. Refer to [FAX-8, "Removal and Installation"](#).
6. Remove cotter pin, and adjusting cap, and then loosen wheel hub lock nut with power tool. Refer to [FAX-8, "Removal and Installation"](#).

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FRONT DRIVE SHAFT

< REMOVAL AND INSTALLATION >

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

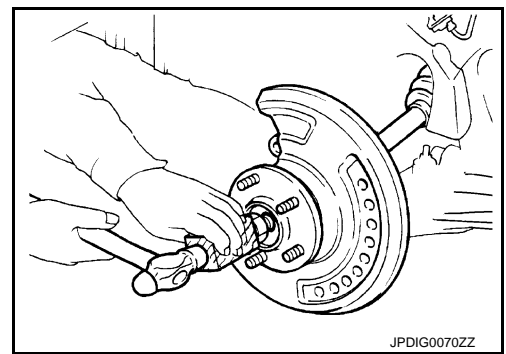
NOTE:

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

8. Remove wheel hub lock nut. Refer to [FAX-8, "Removal and Installation"](#).
9. Remove strut assembly from steering knuckle. Refer to [FSU-8, "Removal and Installation"](#).
10. Remove drive shaft from wheel hub 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.



11. Remove bearing housing plate bolts (2WD) or bearing housing bolts (AWD).
12. Remove drive shaft assembly 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.

13. Remove support bearing bracket. (2WD)
14. Perform inspection after removal. Refer to [FAX-31, "Inspection"](#).

INSTALLATION

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

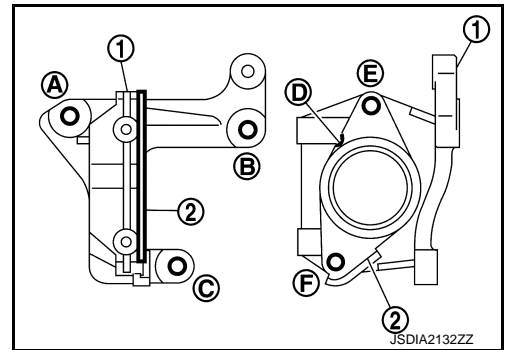
Transaxle Side (2WD)

- Always replace differential side oil seal with new one when installing drive shaft. Refer to [TM-18, "Removal and Installation"](#) (M/T), [TM-235, "2WD : Removal and Installation"](#) (CVT).

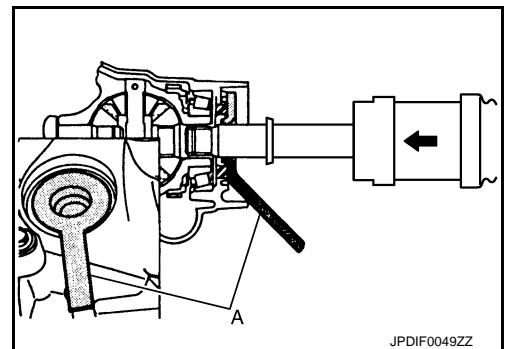
- Install support bearing bracket (1) in following procedure,
 - Temporarily tighten mounting bolts (A), (B), (C), then tighten them to specified torque.
 - Set plate (2) so that notch (D) becomes upper side. Temporarily tighten mounting bolts (E), (F), then tighten them to specified torque.

CAUTION:

Never reuse plate.



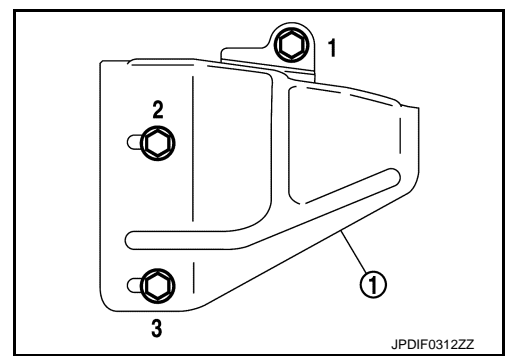
- Place the protector (A) [SST:KV38107900 (—)] onto transaxle assembly to prevent damage to the oil seal while inserting drive shaft. Slide drive shaft sliding joint and tap with a hammer to install securely.



FRONT DRIVE SHAFT

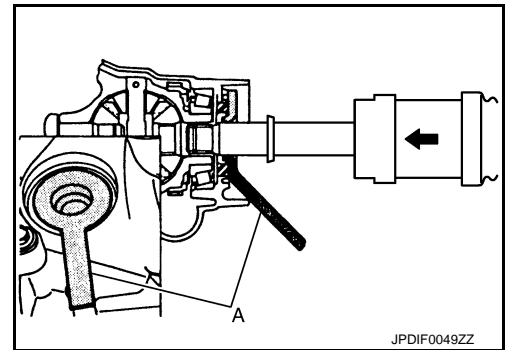
< REMOVAL AND INSTALLATION >

- To install mounting nuts of the heat insulator (1), temporarily tighten them in numerical order shown in the figure and tighten them to the specified torque.
- Perform inspection after removal. Refer to [FAX-31. "Inspection"](#).



Transaxle Side (AWD)

- Always replace differential side oil seal with new one when installing drive shaft. Refer to [TM-237. "AWD : Removal and Installation"](#).
- 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.
- Tighten the bearing housing bolt to the specified torque. Refer to [FAX-18. "Exploded View"](#).
- Perform inspection after removal. Refer to [FAX-31. "Inspection"](#).



Wheel Hub Side

- Clean the matching surface of wheel hub lock nut and wheel hub assembly.

CAUTION:

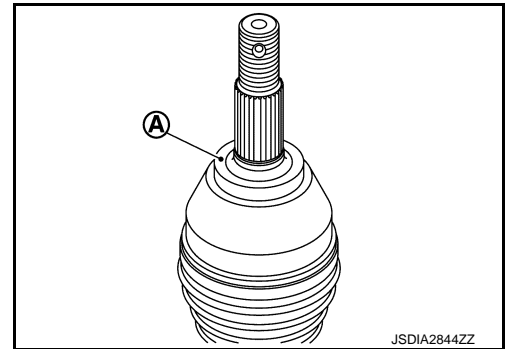
Never apply lubricating oil to these matching surface.

- Clean the matching surface of drive shaft and wheel hub assembly. And then apply paste [service parts (440037S000)] to surface (A) of joint sub-assembly of drive shaft.


CAUTION:

Apply paste to cover entire flat surface of joint sub-assembly of drive shaft.

Amount paste : 1.0 – 3.0 g (0.04 – 0.10 oz)



- Use the following torque range for tightening the wheel hub lock nut.

 : **180 – 185 N·m (18.4 – 18.8 kg·m, 133 – 136 ft·lb)**

CAUTION:

- **Since the drive shaft is assembled by press-fitting, use the tightening torque range for the wheel hub lock nut.**
- **Be sure to use torque wrench to tighten the wheel hub lock nut. Never use a power tool.**
- **Never reuse wheel hub lock nut.**

NOTE:

Wheel hub lock nut tightening torque does not over torque for avoiding axle noise, and does not less than torque for avoiding looseness.

- Align the matching marks that have been made during removal when reusing the disc rotor.

FRONT DRIVE SHAFT

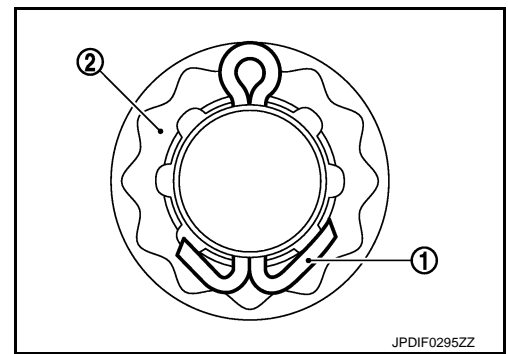
< REMOVAL AND INSTALLATION >

- When installing a cotter pin (1) and adjusting cap (2), securely bend the basal portion to prevent rattles.

CAUTION:

Never reuse cotter pin.

- Perform the final tightening of each of parts under unladen conditions, which were removed when removing wheel hub assembly and steering knuckle.
- Perform inspection after installation. Refer to [FAX-31, "Inspection"](#).



WHEEL SIDE

WHEEL SIDE : Disassembly and Assembly

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DISASSEMBLY

1. Fix shaft with a vise.

CAUTION:

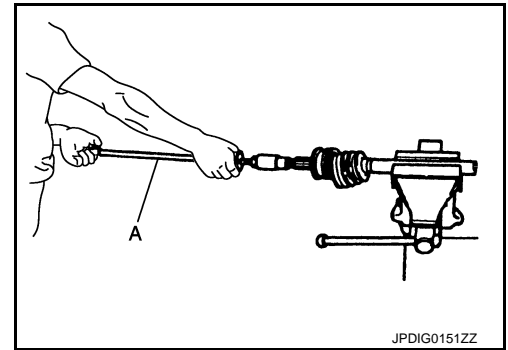
Protect shaft when fixing with a vise using aluminum or copper plates.

2. Remove boot bands, and then remove boot from joint sub-assembly.
3. Screw drive shaft puller (A) (commercial service tool) 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 from shaft.

CAUTION:

- **Align drive shaft puller and drive shaft and remove them by pulling firmly and uniformly.**
- **If joint sub-assembly cannot be removed after five or more unsuccessful attempts, replace shaft and joint sub-assembly as a set.**

4. Remove circular clip from shaft.
5. Remove boot from shaft.
6. Perform inspection after removal. Refer to [FAX-31, "Inspection"](#).

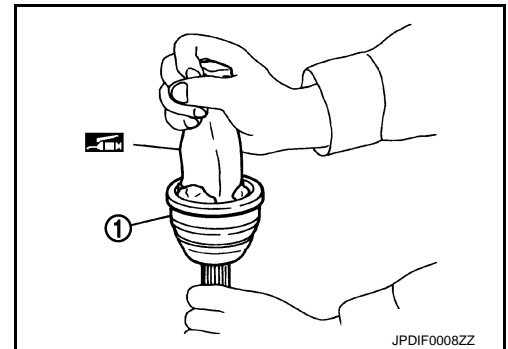


ASSEMBLY

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.



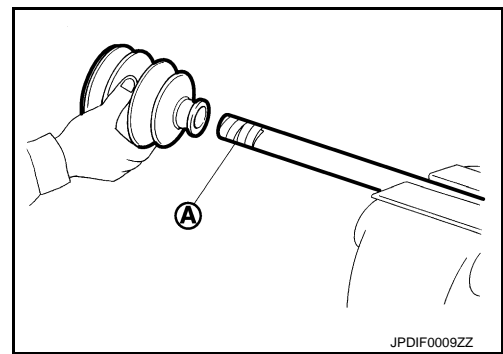
3. Install boot and boot bands to shaft.

CAUTION:

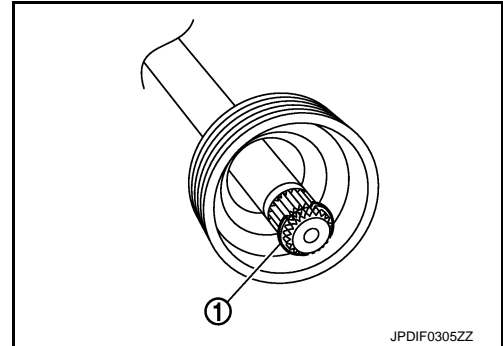
FRONT DRIVE SHAFT

< REMOVAL AND INSTALLATION >

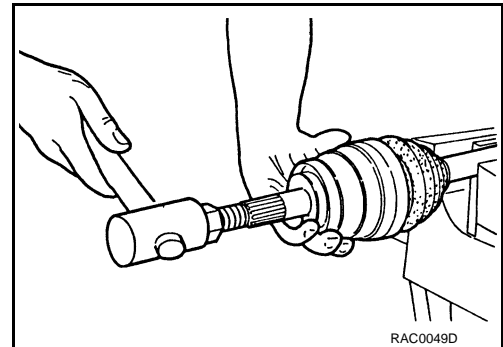
- Wrap serration on shaft with tape (A) to protect the boot from damage.
 - Never reuse boot and boot band.
4. Remove the tape wrapped around the serration on shaft.



5. Position the circular clip (1) on groove at the shaft edge.
- CAUTION:**
Never reuse circular clip.
- NOTE:**
Drive joint inserter is recommended when installing circular clip.



6. Align both center axes of the shaft edge and joint sub-assembly. Then assemble shaft with joint sub-assembly holding circular clip.
7. Install joint sub-assembly to shaft using plastic hammer.
- CAUTION:**
- Check circular clip is properly positioned on groove of the joint sub-assembly.
 - Confirm that joint sub-assembly is correctly engaged while rotating drive shaft.
8. Apply the specified amount of grease into the boot inside from large diameter side of boot.

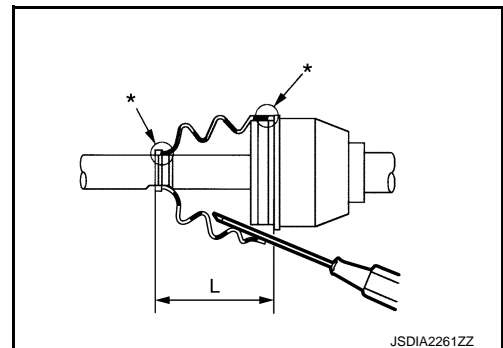


Grease amount : Refer to [FAX-32, "Drive Shaft"](#).

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 "*" marks) on the shaft or joint sub-assembly, boot may be removed. Remove all grease from the boot mounting surface.

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



L : Refer to [FAX-32, "Drive Shaft"](#).

CAUTION:

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

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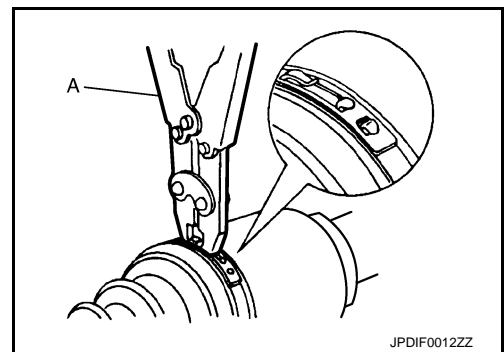
FRONT DRIVE SHAFT

< REMOVAL AND INSTALLATION >

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.

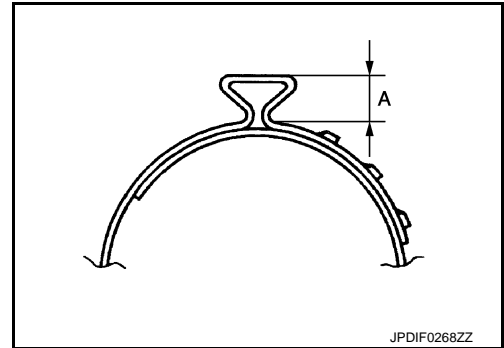


- Secure boot band so that dimension (A) meets the specification as shown in the figure.

A

2WD : 5.0 mm (0.197 in) or less.

AWD : 7.0 mm (0.276 in) or less.



12. Check that displacement does not occur when boot is rotated with the joint sub-assembly and shaft fixed.

CAUTION:

- Reinstall them using boot bands when boot installation positions become incorrect.
- Never reuse boot band.

TRANSAXLE SIDE

TRANSAXLE SIDE : Disassembly and Assembly

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DISASSEMBLY

Left Side

1. Fix shaft with a vise.

CAUTION:

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

2. Remove wheel side boot from joint sub-assembly. Refer to [FAX-13, "WHEEL SIDE : Removal and Installation"](#).
3. Remove dynamic damper as per the following instructions:
 - a. Remove damper band.
 - b. Remove dynamic damper from housing assembly.
4. Remove boot bands, then remove boot from housing assembly.
5. Remove circular clip from housing assembly.
6. Remove dust shield from housing assembly.
7. Perform inspection after disassembly. Refer to [FAX-31, "Inspection"](#).

Right Side

1. Fix shaft with a vise.

CAUTION:

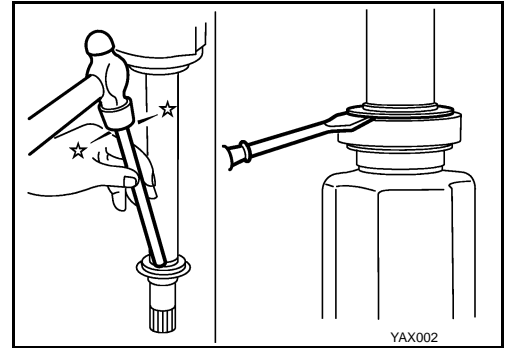
Protect shaft using aluminum or copper plates when fixing with a vise.

2. Remove wheel side boot from joint sub-assembly. Refer to [FAX-13, "WHEEL SIDE : Removal and Installation"](#).
3. Remove dynamic damper as per the following instructions:
 - a. Remove damper band.
 - b. Remove dynamic damper from housing assembly.

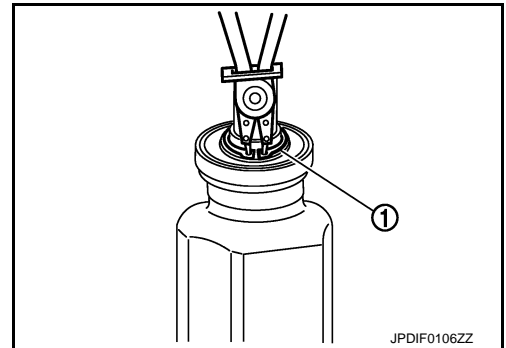
FRONT DRIVE SHAFT

< REMOVAL AND INSTALLATION >

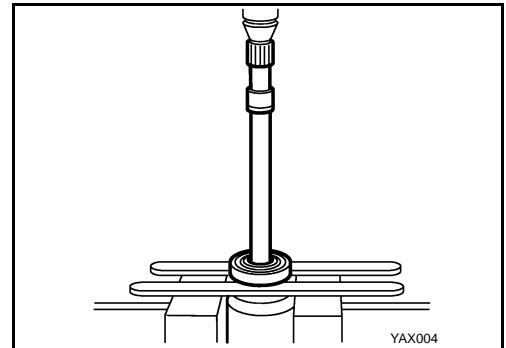
4. Remove boot bands, then remove boot from housing assembly.
5. Remove support bearing, follow the procedure described below. (2WD)
- a. Remove dust shield from housing.



- b. Remove snap ring (1).



- c. Press out support bearing from housing.
- d. Remove dust shield from housing.
6. Perform inspection after installation. Refer to [FAX-31, "Inspection"](#).

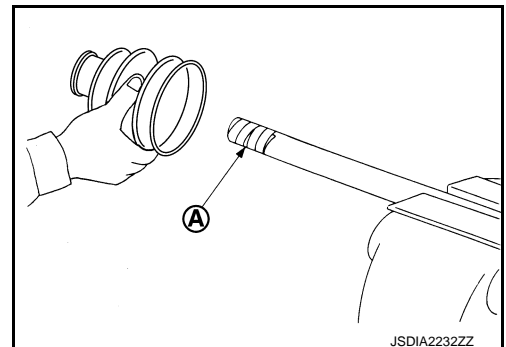


ASSEMBLY

Left Side

1. Clean the old grease on housing assembly with paper waste.
2. Install boot and boot bands to housing assembly.
CAUTION:
 - **Wrap serration on housing assembly with tape (A) to protect the boot from damage.**
 - **Never reuse boot and boot band.**
3. Remove the tape wrapped around the serration on housing assembly.
4. Apply NISSAN genuine grease (refer to parts catalog) to housing assembly.

Grease amount : Refer to [FAX-32, "Drive Shaft"](#).



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FRONT DRIVE SHAFT

< REMOVAL AND INSTALLATION >

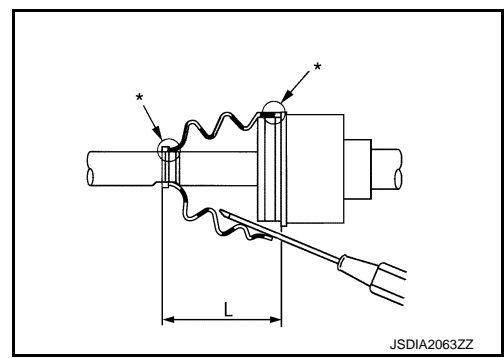
5. Install boot securely into grooves (indicated by "*" marks) shown in the figure.

CAUTION:

If grease adheres to the boot mounting surface (with "*" marks) on shaft or housing, boot may be removed. Remove all grease from the surface.

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

L : Refer to [FAX-32, "Drive Shaft"](#).



CAUTION:

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

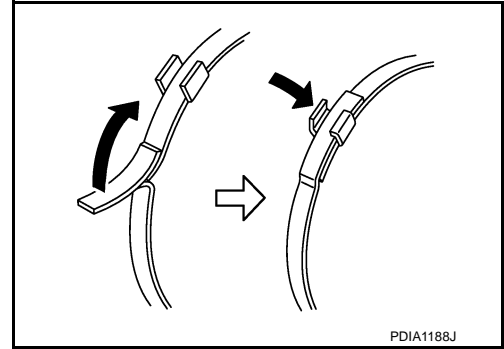
7. Install boot bands securely.

CAUTION:

Never reuse boot bands.

For one-touch clamp band

- Install boot bands securely as shown in the figure.

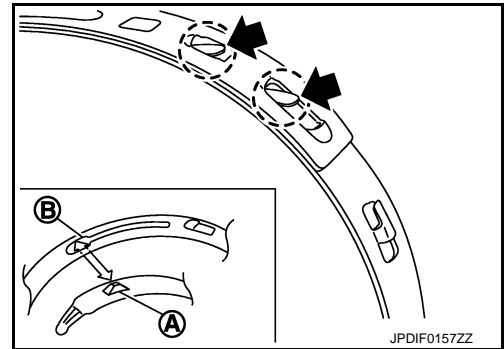


For low profile type band

1. 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.



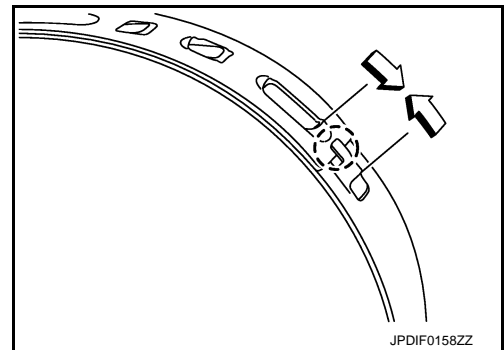
2. Pinch projection on the band with suitable pliers to tighten band.
3. Insert the tip of band into the lower part of pawl (marked with dotted circle) as shown in the figure.

8. Check that displacement does not occur when boot is rotated with the housing assembly fixed.

CAUTION:

- If displacement occurs, reinstall band.
- Never reuse boot band.

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



FRONT DRIVE SHAFT

< REMOVAL AND INSTALLATION >

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

CAUTION:

Never reuse boot bands.

A : Refer to [FAX-32. "Drive Shaft"](#).

10. Install dust shield to housing assembly.

CAUTION:

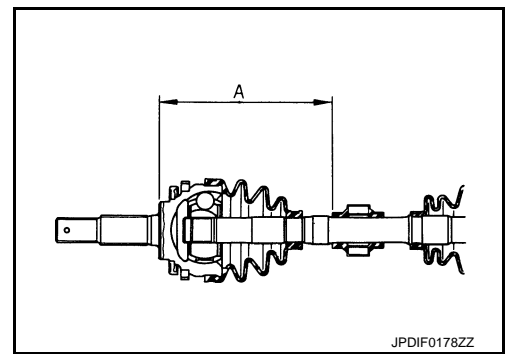
Never reuse dust shield.

11. Install circular clip to housing.

CAUTION:

Never reuse circular clip.

12. Install boot to the wheel side. Refer to [FAX-24. "WHEEL SIDE : Disassembly and Assembly"](#).



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Right Side

1. Install support bearing, follow the procedure described below. (2WD)

- a. Install dust shield to housing.

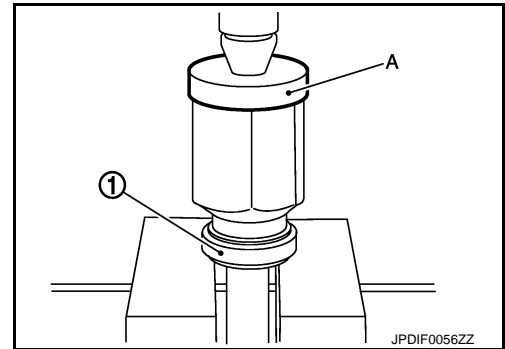
CAUTION:

Never reuse dust shield.

- b. Press support bearing (1) onto housing to using the suitable tool (A).

CAUTION:

Never reuse support bearing.

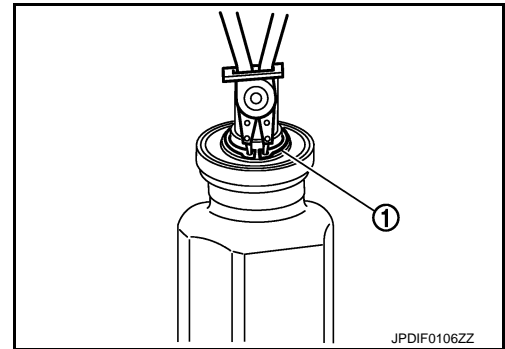


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- c. Install snap ring (1).

CAUTION:

Never reuse snap ring.

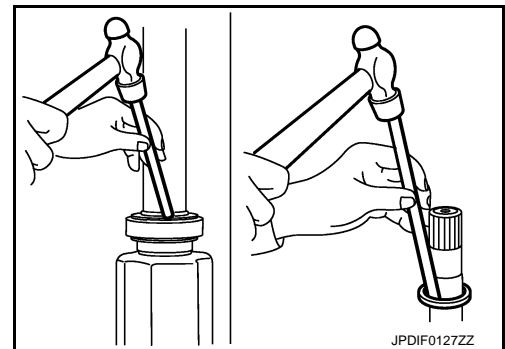


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- d. Install dust shields.

CAUTION:

Never reuse dust shields.



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2. Clean the old grease on housing assembly with paper waste.

3. Install boot and boot bands to housing assembly.

CAUTION:

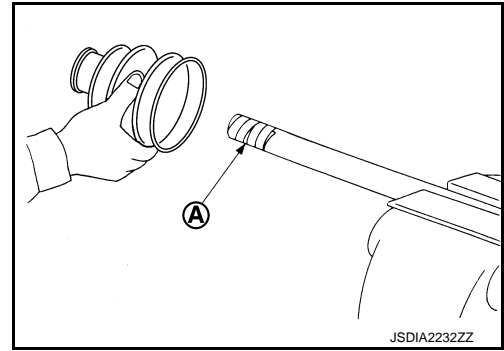
FRONT DRIVE SHAFT

< REMOVAL AND INSTALLATION >

- Wrap serration on housing assembly with tape (A) to protect the boot from damage.
- Never reuse boot and boot band.

- Remove the tape wrapped around the serration on housing assembly.
- Apply NISSAN genuine grease (refer to parts catalog) to housing assembly.

Grease amount : Refer to [FAX-32, "Drive Shaft"](#).



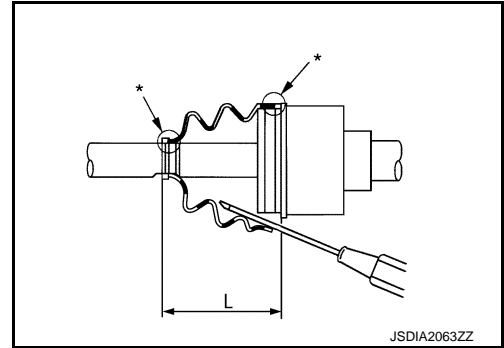
- Install boot securely into grooves (indicated by "*" marks) shown in the figure.

CAUTION:

If grease adheres to the boot mounting surface (with "*" marks) on shaft or housing, boot may be removed. Remove all grease from the surface.

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

L : Refer to [FAX-32, "Drive Shaft"](#).



CAUTION:

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

- Install boot bands securely.

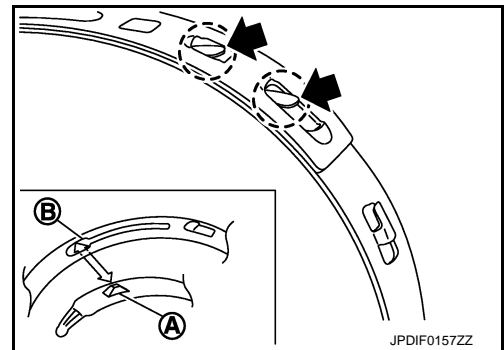
CAUTION:

Never reuse boot bands.

- 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.

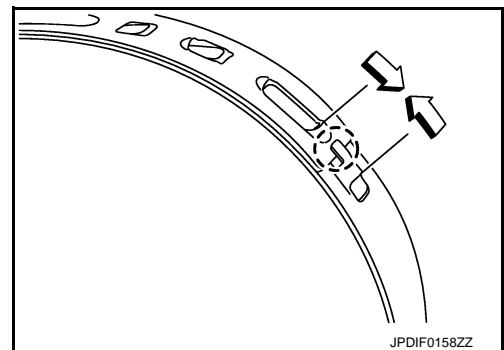


- Pinch projection on the band with suitable pliers to tighten band.
- Insert the tip of band into the lower part of pawl (marked with dotted circle) as shown in the figure.

- Check that displacement does not occur when boot is rotated with the housing assembly fixed.

CAUTION:

- If displacement occurs, reinstall band.
- Never reuse boot band.



- Install dynamic damper, follow the procedure described below.

- Install dynamic damper to shaft.

FRONT DRIVE SHAFT

< REMOVAL AND INSTALLATION >

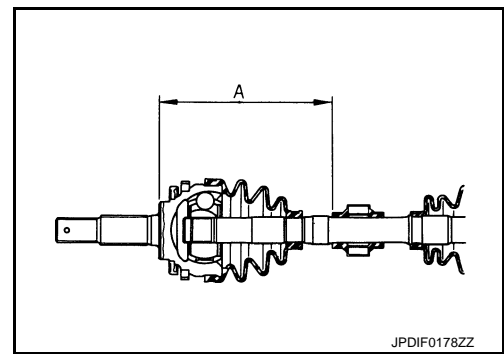
- b. Secure dynamic damper with bands in the following specified position (A) when installing.

CAUTION:

Never reuse bands.

A : Refer to [FAX-32. "Drive Shaft"](#).

11. Install boot to the wheel side. Refer to [FAX-24. "WHEEL SIDE : Disassembly and Assembly"](#).



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Inspection

INSPECTION AFTER REMOVAL

Check the following items, and replace the part if necessary.

- 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.
- Check the support bearing bracket for cracks, deformation and other damage.

INSPECTION AFTER DISASSEMBLY

Check the following items, and replace the part if necessary.

Dynamic Damper

Check damper for cracks or wear.

Joint Sub-Assembly

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 assembly

- Replace housing assembly if there is scratching or wear of housing assembly roller contact surface.
- Check shaft for runout, cracks, or other damage.

Support Bearing (Right Side)

Check bearing rolls freely and is free from noise, cracks, pitting or wear. Replace support bearing if there are any non-standard conditions.

Support Bearing Bracket (Right Side)

Check for support bearing bracket, cracks, or damage. Replace support bearing bracket if there are any non-standard conditions.

INSPECTION AFTER INSTALLATION

1. Check wheel sensor harness for proper connection. Refer to [BRC-126. "FRONT WHEEL SENSOR : Exploded View"](#).
2. Check the wheel alignment. Refer to [FSU-6. "Inspection"](#).
3. Adjust neutral position of steering angle sensor. Refer to [BRC-56. "Work Procedure"](#).

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SERVICE DATA AND SPECIFICATIONS (SDS)

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Wheel Bearing

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

Drive Shaft

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2WD

| Item | Standard | |
|------------------------------|----------------|---------------------------------|
| | M/T | CVT |
| Grease quantity | Wheel side | 115 – 125 g (4.06 – 4.41 oz) |
| | Transaxle side | 132 – 142 g (4.66 – 5.01 oz) |
| Boots installed length* | Wheel side | 97.1 mm (3.82 in) |
| | Transaxle side | 85 mm (3.35 in) |
| Dimension of dynamic damper* | Left side | 267 – 273 mm (10.51 – 10.75 in) |
| | Right side | 257 – 263 mm (10.12 – 10.35 in) |

*: For measuring position, refer to [FAX-24, "WHEEL SIDE : Disassembly and Assembly"](#) (Wheel side), [FAX-26, "TRANSAXLE SIDE : Disassembly and Assembly"](#) (Transaxle side).

AWD

| Item | Standard | |
|------------------------------|---------------------------------|------------------------------|
| Grease quantity | Wheel side | 88 – 108 g (3.10 – 3.81 oz) |
| | Transaxle side | 114 – 124 g (4.02 – 4.37 oz) |
| Boots installed length* | Wheel side | 94.8 mm (3.73 in) |
| | Transaxle side | 93.2 mm (3.67 in) |
| Dimension of dynamic damper* | 267 – 273 mm (10.51 – 10.75 in) | |

*: For measuring position, refer to [FAX-24, "WHEEL SIDE : Disassembly and Assembly"](#) (Wheel side), [FAX-26, "TRANSAXLE SIDE : Disassembly and Assembly"](#) (Transaxle side).