

SECTION **RAX**
REAR AXLE

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RAX

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precautions Concerning On-board Servicing of Hybrid Systems

INFOID:000000008143370

CAUTION:

Be sure to turn the ignition switch OFF before performing inspection and servicing inside the engine compartment or underneath the vehicle. If the ignition switch is ON (vehicle READY state), even if the engine is stopped, the conditions of the vehicle may cause the engine to start automatically.

If it is necessary to continually operate the engine during inspection or servicing, use the designated inspection mode. [HBC-89. "Description"](#).

Precautions for Drive Shaft

INFOID:000000008143371

- 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

< PREPARATION >

PREPARATION

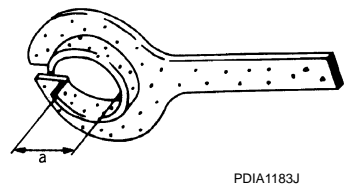
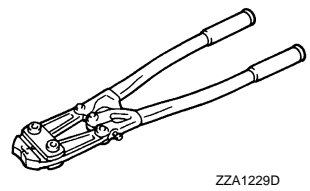
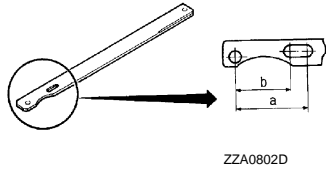
PREPARATION

Special Service Tools

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

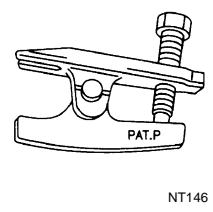
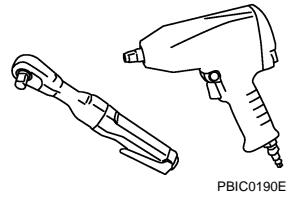
Tool number (Kent-Moore No.) Tool name	Description
KV40104000 (-) Hub lock nut wrench a: 85 mm (3.35 in) b: 65 mm (2.56 in)	Removing and Installing wheel hub lock nut.
KV40107300 (-) Boot band crimping tool	Installing boot band
KV38105500 (J-33904) Protector a: 40 mm (1.57 in) dia.	Installing drive shaft



Commercial Service Tools

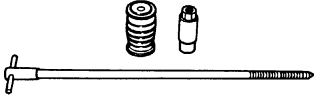
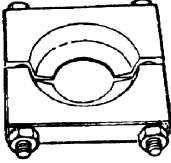
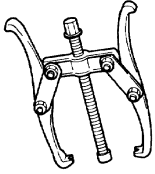
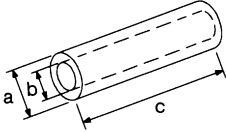
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Tool name	Description
Power tool	Loosening bolts and nuts
Ball joint remover	<ul style="list-style-type: none"> • Removing ball joint for steering knuckle • Removing hub bolt



PREPARATION

< PREPARATION >

Tool name	Description
<p>Drive shaft puller</p>  <p>JPDIG0152ZZ</p>	<p>Removing drive shaft joint sub assembly</p>
<p>Replacer</p>  <p>ZZA0700D</p>	<p>Removing sensor rotor</p>
<p>Puller</p>  <p>ZZA0119D</p>	<p>Removing sensor rotor</p>
<p>Drift</p> <p>a: Approx. 85 mm (3.35 in) dia. b: 73 – 75 mm (2.87 – 2.95 in) dia. c: 125 mm (4.92 in) or more</p>  <p>S-NT117</p>	<p>Installing sensor rotor</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.

Symptom		Possible cause and SUSPECTED PARTS													
		Excessive joint angle	Joint sliding resistance	Imbalance	Improper installation, looseness	Parts interference	PROPELLER SHAFT	DIFFERENTIAL	REAR AXLE AND REAR SUSPENSION	REAR AXLE	TIRE	ROAD WHEEL	DRIVE SHAFT	BRAKE	STEERING
DRIVE SHAFT	Noise	x	x				x	x	x	x	x	x		x	x
	Shake	x		x			x		x	x	x	x		x	x
REAR AXLE	Noise				x	x	x	x	x		x	x	x	x	x
	Shake				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
	Judder				x				x		x	x		x	x
Poor quality ride or handling					x	x			x		x	x			

x: Applicable

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REAR WHEEL HUB AND HOUSING

< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE

REAR WHEEL HUB AND HOUSING

Inspection

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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 [RAX-20, "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.

REAR DRIVE SHAFT

< PERIODIC MAINTENANCE >

REAR DRIVE SHAFT

Inspection

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

CAUTION:

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

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REAR WHEEL HUB AND HOUSING

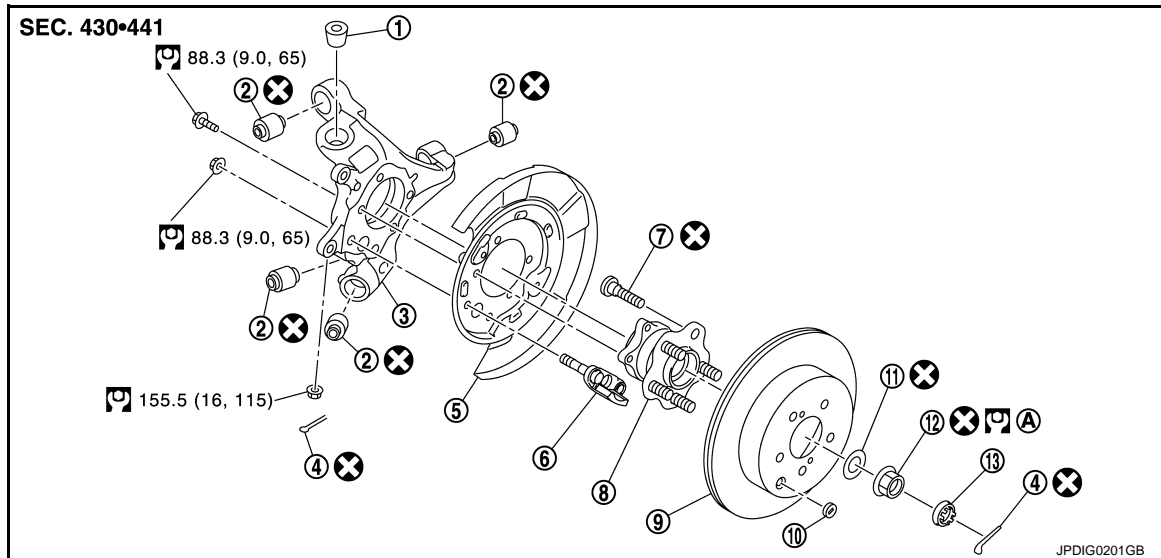
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

REAR WHEEL HUB AND HOUSING

Exploded View

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|-------------------|---|------------------------|
| 1. Ball seat | 2. Bushing | 3. Axle housing |
| 4. Cotter pin | 5. Back plate | 6. Anchor block |
| 7. Hub bolt | 8. Wheel hub assembly (Bearing-integrated type) | 9. Disc rotor |
| 10. Plug | 11. Spring washer | 12. Wheel hub lock nut |
| 13. Adjusting cap | | |
- A. Tightening must be done following the installation procedure. Refer to [RAX-8, "Removal and Installation"](#).

⊗: Always replace after every disassembly.

Ⓜ: N·m (kg·m, ft·lb)

Removal and Installation

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REMOVAL

1. Remove tire from vehicle with power tool. Refer to [WT-58, "Removal and Installation"](#).
2. Remove caliper assembly. Hang caliper assembly in a place where it will not interfere with work. Refer to [BR-299, "BRAKE CALIPER ASSEMBLY : Removal and Installation"](#).

CAUTION:

Never depress brake pedal while brake caliper is removed.

3. Remove disc rotor. If disc rotor cannot be removed, remove as follows.

CAUTION:

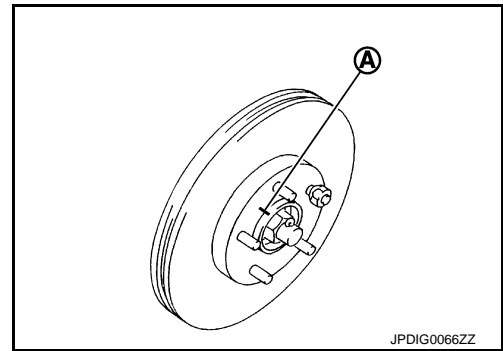
- Parking brake completely in the released position.

REAR WHEEL HUB AND HOUSING

< 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.

a. Fix the disc rotor with wheel nuts and remove the adjusting hole plug.



b. Using suitable tool, rotate adjuster (1) in the direction (A) to retract and loosen brake shoe.

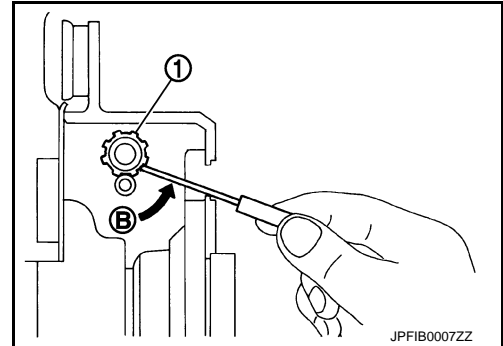
4. Remove parking brake shoe and parking brake cable from back plate. Refer to [PB-9, "Removal and Installation"](#) and [PB-7, "Removal and Installation"](#).

5. Set suitable jack under axle housing.

CAUTION:

- Never damage the axle housing with a jack.
- Check the stable condition when using a jack.

6. Remove shock absorber from axle housing with power tool. Refer to [RSU-8, "Removal and Installation"](#).



7. Remove toe control link from axle housing. Refer to [RSU-18, "Removal and Installation"](#).

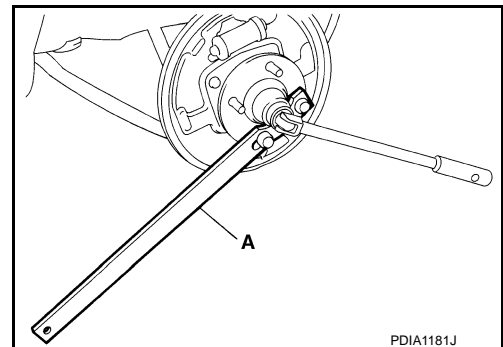
8. Remove rear lower link from axle housing side. Refer to [RSU-16, "Removal and Installation"](#).

9. Remove front lower link from axle housing side. Refer to [RSU-14, "Removal and Installation"](#).

10. Remove height sensor from suspension arm (left side). (With AFS) Refer to [EXL-115, "Removal and Installation"](#).

11. Remove stabilizer connecting rod from suspension arm. Refer to [RSU-20, "Removal and Installation"](#).

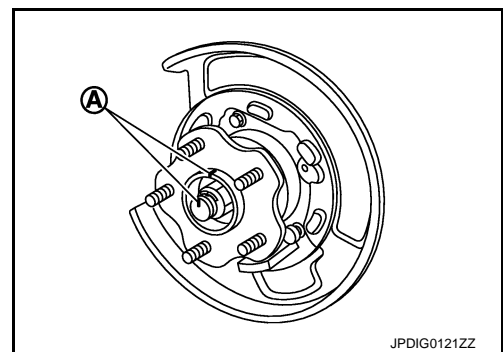
12. Remove cotter pin and adjusting cap, then loosen wheel hub lock nut, using the hub lock nut wrench (A) (SST: KV40104000).



13. Put matching mark (A) on drive shaft and wheel hub assembly.

CAUTION:

Use paint or similar substance for matching marks. Never scratch the surface.



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REAR WHEEL HUB AND HOUSING

< REMOVAL AND INSTALLATION >

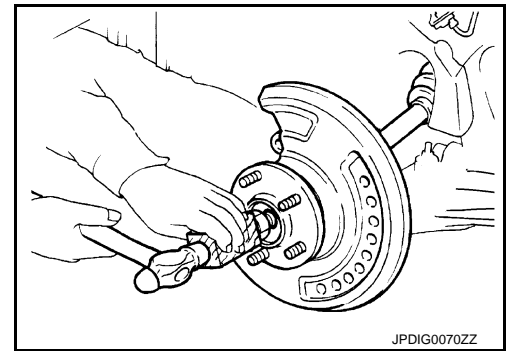
14. Patch wheel hub lock nut with a piece of wood. Hammer the wood to disengage wheel hub assembly from drive shaft. Take out the wheel hub lock nut and spring washer.

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 counterpart such as joint sub-assembly, and other parts.

NOTE:

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



15. Remove wheel hub lock nut and spring washer.
16. Remove drive shaft from axle housing.
17. Remove cotter pin, then loosen suspension arm mounting nut of axle housing.
18. Separate suspension arm from axle housing, using ball joint remover, and then remove axle housing from the vehicle.

CAUTION:

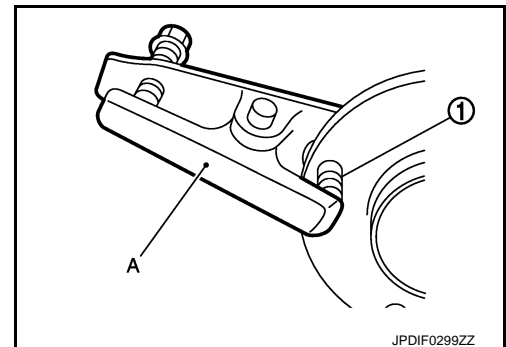
- Never damage ball joint boot.
- Temporarily tighten nuts to prevent damage to threads and to prevent the ball joint remover from coming off.
- Never place drive shaft joint at an extreme angle. Also be careful not to overextend slide joint.
- Never allow drive shaft to hang down without support for counterpart such as joint sub-assembly, and other parts.

19. Remove axle housing.
20. Remove wheel hub assembly.
21. Remove anchor block and back plate.
22. Remove hub bolts 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.

23. Perform inspection after removal. Refer to [RAX-11, "Inspection"](#).



INSTALLATION

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

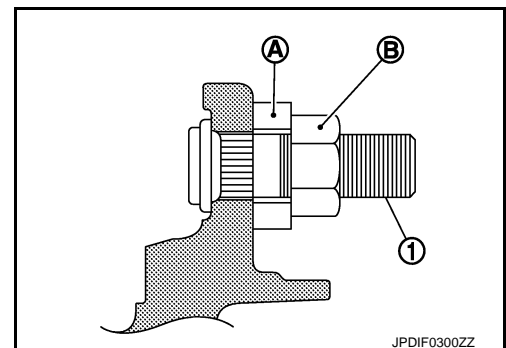
- Place a washer (A) as shown in the figure to install the hub bolts (1) by using the tightening force of the nut (B).

CAUTION:

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

CAUTION:

Never apply lubricating oil to these matching surface.



REAR WHEEL HUB AND HOUSING

< 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)

- When installing drive shaft, change the drive shaft and wheel hub assembly matching marks put at the removal step by 180 degree.
- Use the following torque range for tightening the wheel hub lock nut.

 : **100 – 105 N·m (10 – 11 kg·m, 74 – 77 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.

- Perform the final tightening of each of parts under unladen conditions, which were removed when removing wheel hub assembly and axle housing.
- When installing the spring washer, face the identification paint mark to the wheel hub assembly side.

CAUTION:

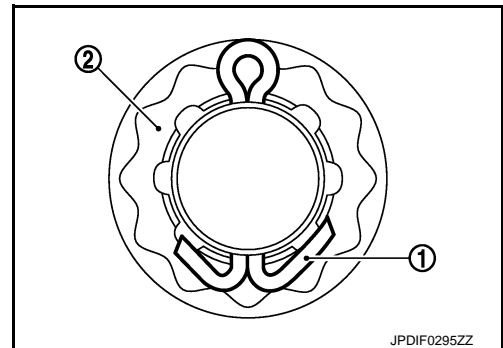
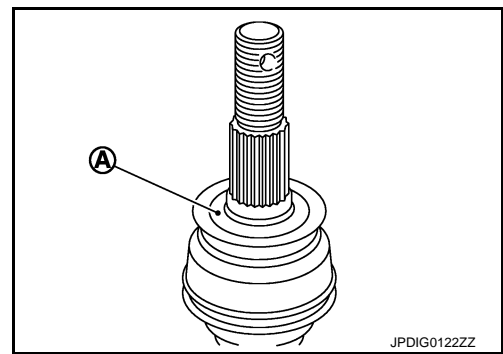
Never reuse spring washer.

- 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.

- Never reuse bushing.
- Perform inspection after installation. Refer to [RAX-11. "Inspection"](#).



INFOID:000000008143379

Inspection

INSPECTION AFTER REMOVAL

Wheel hub Assembly

Check the wheel hub assembly for wear, cracks, and damage. Replace if necessary.

Axle Housing

Check the axle housing for wear, cracks, and damage. Replace if necessary.

Ball Joint Inspection

Check for boot breakage, axial looseness, and torque of suspension arm ball joint. Refer to [RSU-12. "Inspection"](#).

INSPECTION AFTER INSTALLATION

1. Adjust parking brake operation (stroke). Refer to [PB-4. "Inspection and Adjustment"](#).
2. Check wheel alignment. Refer to [RSU-6. "Inspection"](#).
3. Adjust levelizer adjustment of height sensor. (With AFS) Refer to [EXL-50. "LEVELIZER ADJUSTMENT: Special Repair Requirement"](#).
4. Adjust neutral position of steering angle sensor. Refer to [BRC-66. "Work Procedure"](#).

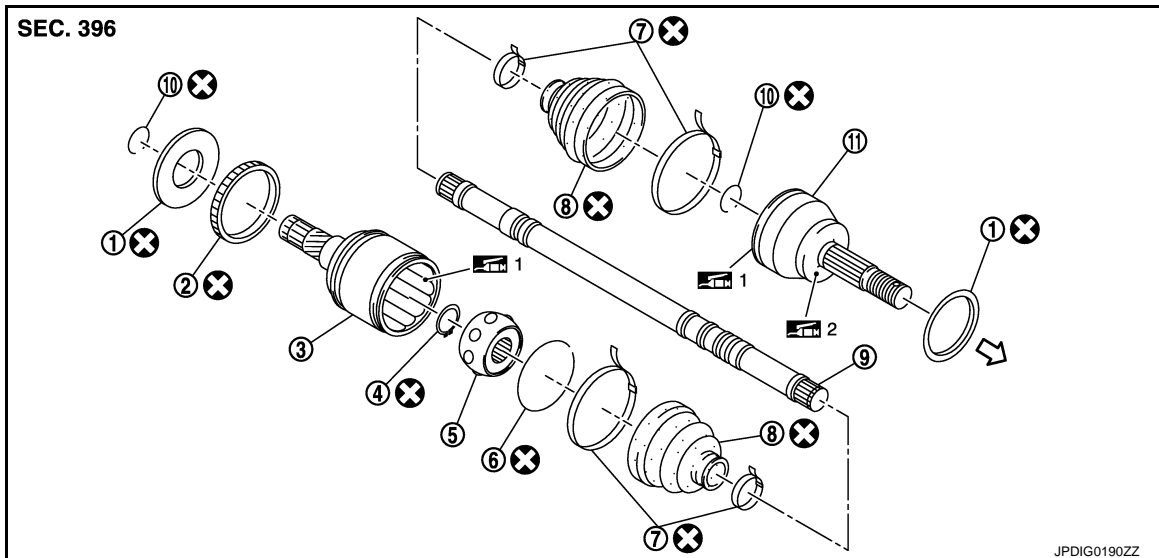
REAR DRIVE SHAFT

< REMOVAL AND INSTALLATION >

REAR DRIVE SHAFT

Exploded View

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|-------------------|---|-----------------|
| 1. Dust shield | 2. Sensor rotor | 3. Housing |
| 4. Stopper ring | 5. Ball cage/steel ball/inner race assembly | 6. Stopper ring |
| 7. Boot band | 8. Boot | 9. Shaft |
| 10. Circular clip | 11. Joint sub-assembly | |

⇐: Wheel side

1: NISSAN genuine grease or an equivalent.

2: Apply paste [service parts (440037S000)].

: Always replace after every disassembly.

Removal and Installation

INFOID:000000008143381

REMOVAL

1. Remove tire from vehicle with power tool. Refer to [WT-58, "Exploded View"](#).
2. Remove center muffler. Refer to [EX-6, "Removal and Installation"](#).
3. Remove rear propeller shaft. Refer to [DLN-7, "Removal and Installation"](#).
4. Remove stabilizer bar. Refer to [RSU-20, "Removal and Installation"](#).
5. Remove wheel sensor. Refer to [BRC-160, "REAR WHEEL SENSOR : Removal and Installation"](#).
6. Separate drive shaft from rear final drive assembly.

CAUTION:

Never damage sensor rotor.

NOTE:

Release the circular clip lock.

7. Remove rear final drive assembly. Refer to [DLN-25, "Removal and Installation"](#).

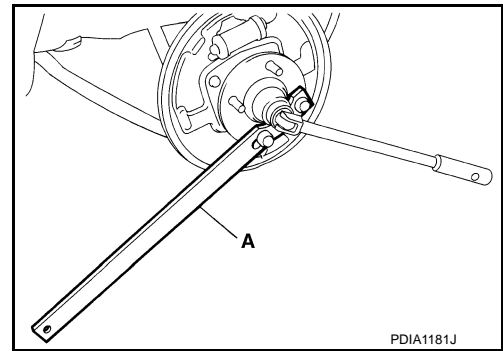
CAUTION:

- **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 counterpart such as joint sub-assembly, and other parts.**

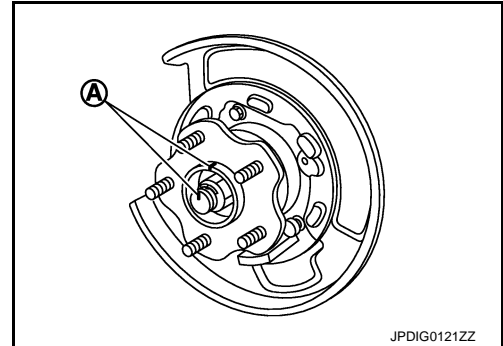
REAR DRIVE SHAFT

< REMOVAL AND INSTALLATION >

8. Remove cotter pin and adjusting cap, then loosen wheel hub lock nut, using the hub lock nut wrench (A) (SST: KV40104000).



9. Put matching mark (A) on drive shaft and wheel hub assembly.
CAUTION:
Use paint or similar substance for matching marks. Never scratch the surface.



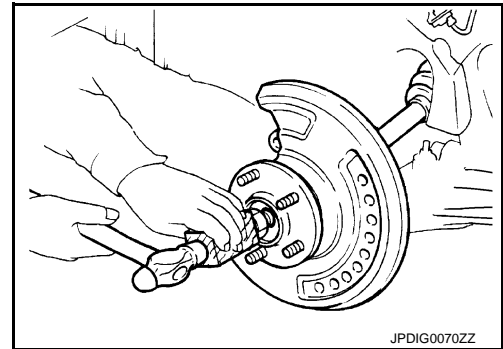
10. Patch wheel hub lock nut with a piece of wood. Hammer the wood to disengage wheel hub assembly from drive shaft.

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 counterpart such as joint sub-assembly, and other parts.

NOTE:

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



11. Remove wheel hub lock nut and spring washer.
12. Remove drive shaft from axle housing.
13. Perform inspection after removal. Refer to [RAX-18. "Inspection"](#).

INSTALLATION

Wheel Side

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

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

CAUTION:

Never apply lubricating oil to these matching surface.

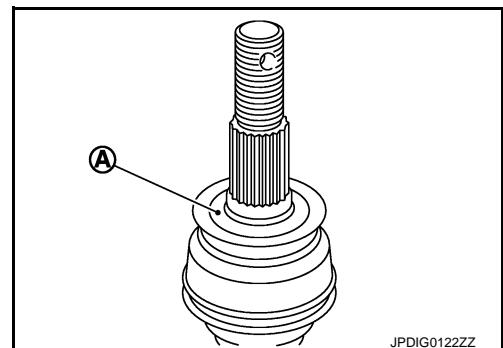
- Clean the matching surface of drive shaft and wheel hub assembly. And then apply paste [service parts (440037S000)] to surface (A) of joint sub-assembly of drive shaft.

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)

- When installing drive shaft, change the drive shaft and wheel hub assembly matching marks put at the removal step by 180 degree.
- Use the following torque range for tightening the wheel hub lock nut.



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REAR DRIVE SHAFT

< REMOVAL AND INSTALLATION >

 : 100 – 105 N-m (10 – 11 kg-m, 74 – 77 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.

- Perform the final tightening of each of parts under unladen conditions, which were removed when removing wheel hub assembly and axle housing.
- When installing the spring washer, face the identification paint mark to the wheel hub assembly side.

CAUTION:

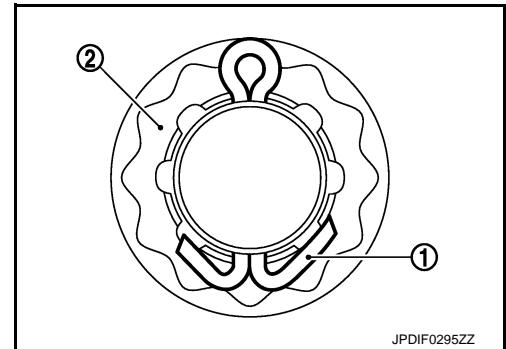
Never reuse spring washer.

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

CAUTION:

Never reuse cotter pin.

- Perform inspection after installation. Refer to [RAX-18, "Inspection"](#).

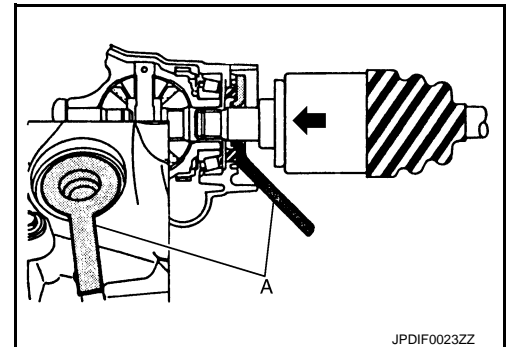


Final Drive Side

- Replace rear final drive side oil seal. Refer to [DLN-24, "Removal and Installation"](#).
- Place the protector (A) [SST: KV38105500 (J-33904)] onto final drive 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:

- Never reuse circular clip
- Check that circular clip is completely engaged.
- Perform inspection after installation. Refer to [RAX-18, "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 dust shield from joint sub-assembly.
3. Remove boot bands and then remove boot from joint sub-assembly.

REAR DRIVE SHAFT

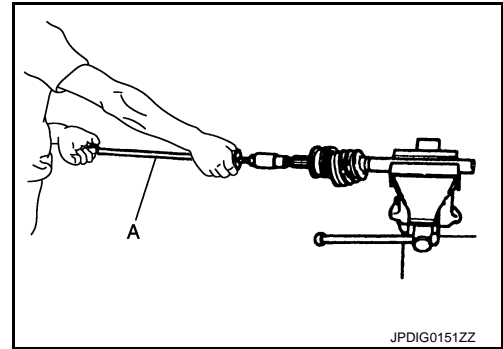
< REMOVAL AND INSTALLATION >

- Screw the drive shaft puller (A) (commercial service tool) 30 mm (1.18 in) or more into the thread of joint sub-assembly, and remove joint sub-assembly from shaft.

CAUTION:

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

- Remove circular clip from shaft.
- Remove boot from shaft.
- Perform inspection after disassembly. Refer to [RAX-18, "Inspection"](#).



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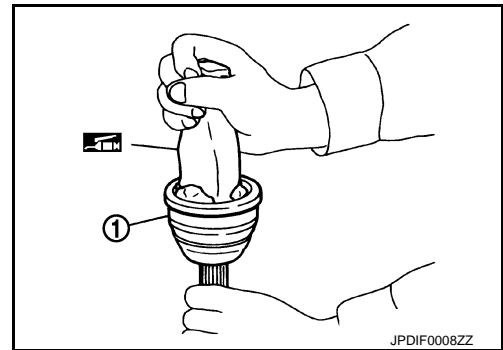
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ASSEMBLY

- Clean old grease on joint sub-assembly with paper waste.
- 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 shop cloth to wipe off old grease that has oozed out.



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- Install boot and boot bands to shaft.

CAUTION:

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

- Remove the tape wrapped around the serrated on shaft.
- Position circular clip on groove at the shaft edge.

CAUTION:

Never reuse circular clip.

NOTE:

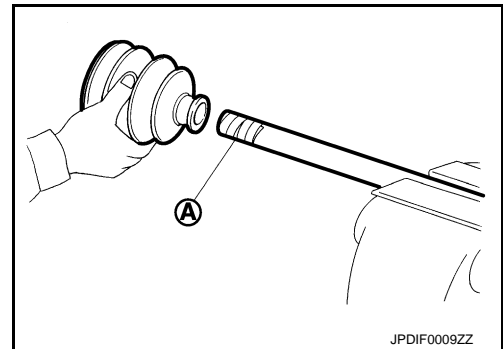
Drive joint inserter is recommended when installing circular clip.

- Align both center axles of the shaft edge and joint sub-assembly. Then assemble shaft with circular clip joint sub-assembly.
- Install joint sub-assembly to shaft using plastic hammer.

CAUTION:

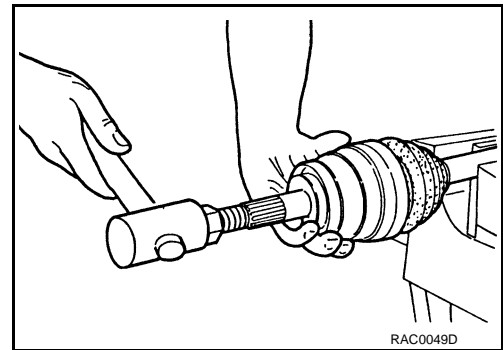
Confirm that joint sub-assembly is correctly engaged while rotating drive shaft.

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



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Grease amount : Refer to [RAX-20, "Drive Shaft"](#).

REAR DRIVE SHAFT

< REMOVAL AND INSTALLATION >

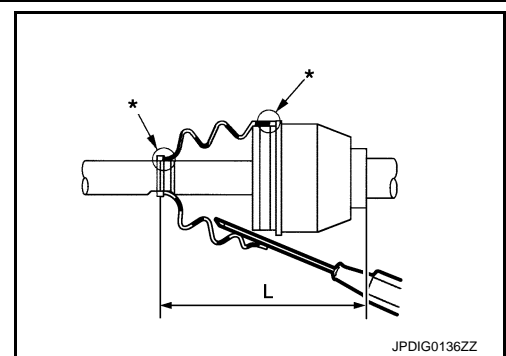
9. Install the boot securely into grooves (indicated by "*" marks) shown in the figure.

L : Boot installation length

CAUTION:

If grease adheres to the boot mounting surface (indicated by "*" mark) on the shaft or housing, boot may come off. Remove all grease from the surfaces.

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



Boot installation length : Refer to [RAX-20, "Drive Shaft"](#).

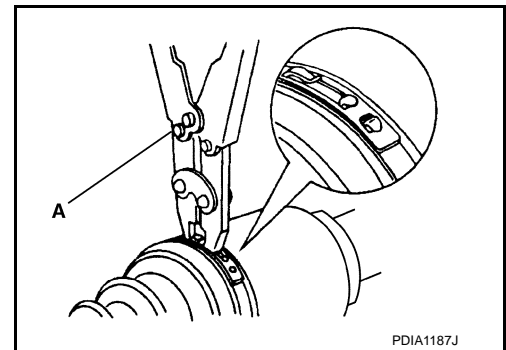
CAUTION:

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

11. Secure the 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 (M) meets the specification as shown in the figure.

M : 2.0 – 3.0 mm (0.079 – 0.118 in)

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

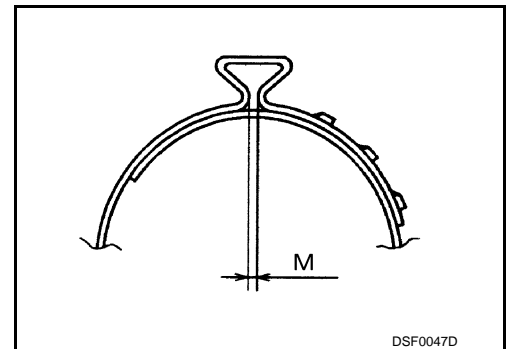
CAUTION:

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

13. Install dust shield to joint sub-assembly.

CAUTION:

Never reuse dust shield.



FINAL DRIVE SIDE

FINAL DRIVE SIDE : Disassembly and Assembly

INFOID:000000008143383

DISASSEMBLY

1. Fix shaft with a vise.

CAUTION:

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

2. Remove circular clip from housing.
3. Remove dust shield from housing.
4. Remove sensor rotor from housing, using a replacer (commercial service tool) and a puller (commercial service tool).

REAR DRIVE SHAFT

< REMOVAL AND INSTALLATION >

5. Remove boot bands, and then remove boot from housing.
6. Put matching marks on housing and shaft.

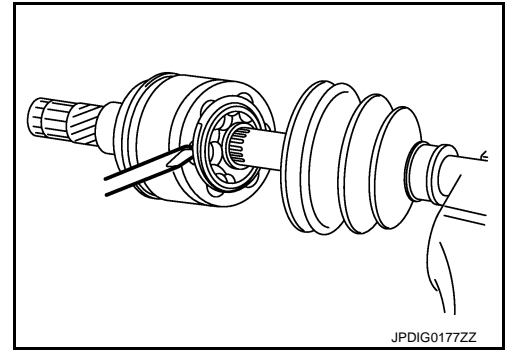
CAUTION:

Use paint or similar substance for matching marks. Never scratch the surface.

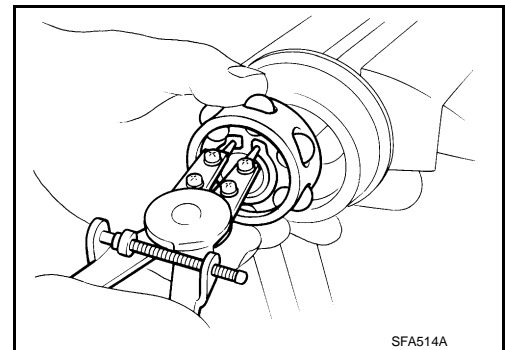
7. Remove stopper ring with suitable tool, and pull out housing.
8. Put matching marks on ball cage/steel ball/inner race assembly and shaft.

CAUTION:

Use paint or similar substance for matching marks. Never scratch the surface.



9. Remove snap ring, then remove ball cage/steel ball/inner race assembly from shaft.
10. Remove boot from shaft.
11. Perform inspection after disassembly. Refer to [RAX-18, "Inspection"](#).



ASSEMBLY

1. Clean old grease on housing with paper waste.
2. Install sensor rotor (1) to housing, using a drift (A) (commercial service tool).

CAUTION:

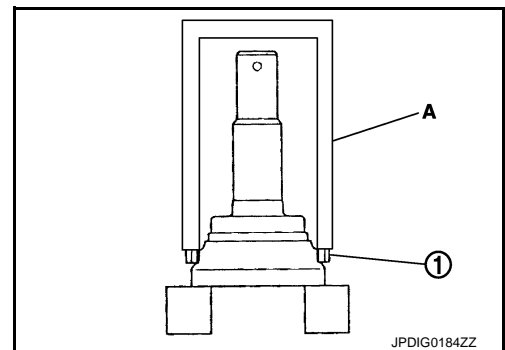
Never reuse sensor rotor.

3. Install boot and boot bands to shaft.

CAUTION:

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

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

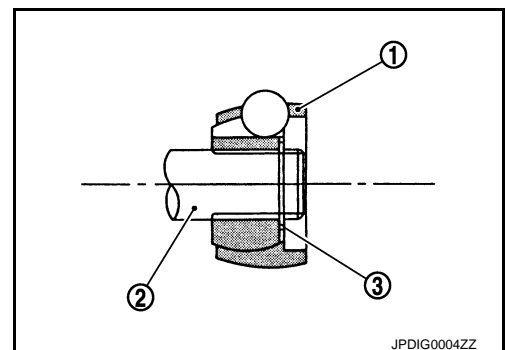


5. Install ball cage/steel ball/inner race assembly (1), align it with the matching marks on shaft (2) put during the removal.
6. Secure ball cage/steel ball/inner race assembly onto shaft with snap ring (3).

CAUTION:

Never reuse snap ring.

7. Apply the appropriate amount of grease onto housing and sliding surface.



Grease amount : Refer to [RAX-20, "Drive Shaft"](#).

8. Install housing.
9. Install stopper ring to housing.

CAUTION:

Never reuse stopper ring.

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REAR DRIVE SHAFT

< REMOVAL AND INSTALLATION >

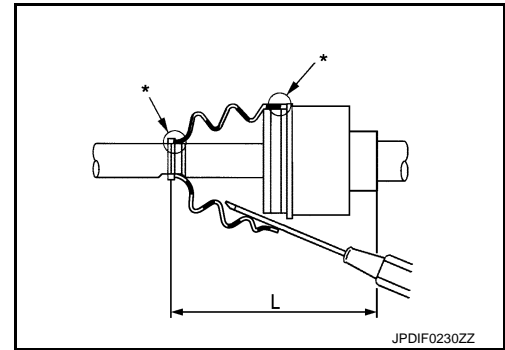
10. After installed, pull shaft to check engagement between housing and stopper ring.
11. Install boot securely into grooves (indicated by "*" marks) shown in the figure.

L : Boot installation length

CAUTION:

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

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



Boot installation length : Refer to [RAX-20, "Drive Shaft"](#).

CAUTION:

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

CAUTION:

Never reuse boot band.

14. Check that displacement does not occur when boot is rotated with the housing and shaft fixed.

CAUTION:

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

15. Install circular clip to housing.

CAUTION:

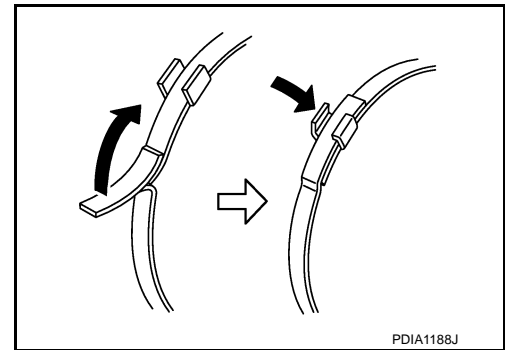
Never reuse circular clip.

16. Install dust shield to housing.

CAUTION:

Never reuse dust shield.

17. Perform inspection after assembly. Refer to [RAX-18, "Inspection"](#).

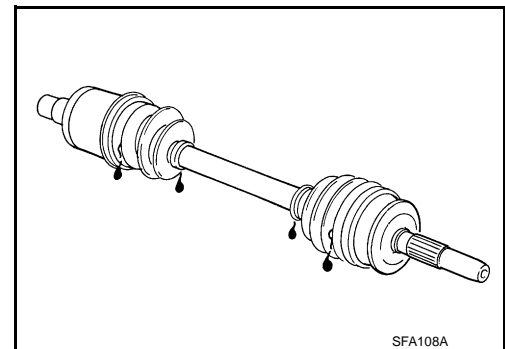


Inspection

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INSPECTION AFTER REMOVAL

- Move joint up/down, left/right, and in the axial direction. Check for any rough movement or significant looseness.
- Check boot for cracks or other damage, and also for grease leakage.
- If a malfunction is found, disassemble drive shaft, and then replace with new one.



INSPECTION AFTER DISASSEMBLY

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

Shaft

Check shaft for runout, cracks, or other damage.

REAR DRIVE SHAFT

< REMOVAL AND INSTALLATION >

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 and ball cage/steel ball/inner race assembly

Replace housing and ball cage/steel ball/inner race assembly if there is scratching or wear of housing roller contact surface or ball cage/steel ball/inner race roller contact surface.

NOTE:

Housing and ball cage/steel ball/inner race assembly are used in a set.

INSPECTION AFTER ASSEMBLY

Check sensor rotor for cracks or other damage.

INSPECTION AFTER INSTALLATION

Check wheel sensor harness for proper connection. Refer to [BRC-160, "REAR WHEEL SENSOR : Exploded View"](#).

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Wheel Bearing

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

Drive Shaft

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Item	Standard	
	Wheel side	Final drive side
Grease quantity	110 – 130 g (3.88 – 4.58 oz)	115 – 135 g (4.06 – 4.76 oz)
Boots installed length	136.1 mm (5.36 in)	196.3 mm (7.73 in)