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< PRECAUTION > PRECAUTION

PRECAUTIONS

Precautions for Removing Battery Terminal

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE	: 4 minutes	V9X engine	: 4 minutes
D4D engine	: 20 minutes	YD25DDTi	: 2 minutes
HR09DET	: 12 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		



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NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

The removal of 12V battery may cause a DTC detection error.

Precautions for Drive Shaft

- 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

The actual shapes of TechMate tools may differ from those of special service tools illustrated here.

			C
Iool number (TechMate No.) Tool name		Description	0
KV40107300 (一) Boot band crimping tool		Installing boot band	RAX
			E
	ZZA1229D		F
KV38106700 (J-34296)		Installing drive shaft	
Protector a: 36 mm (1.42 in) dia.			G
	PDIA1183J		Н
KV40108700 (–) Lock nut crimp punch a: 5 mm (0 20 in)		Installing wheel hub lock nut	I
b: 7 mm (0.28 in)			J
KV40108800	JSDIA4419ZZ	Removing wheel hub lock nut	—— K
 (-) Lock nut chisel a: 44.5 mm (1.752 in) b: 10 mm (0.39 in) dia. c: 31 mm (1.22 in) 			L
d: 4.5 mm (0.177 in) e: 26 mm (1.02 in) f: 0.4 mm (0.016 in) g: 4 mm (0.16 in)			Μ
h: 24 mm (0.94 in)			N

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PREPARATION

< PREPARATION >

Commercial Service Tools

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Tool name		Description
Power tool		Loosening bolts and nuts
Ball joint remover	PBIC0190E	 Removing ball joint for suspension arm Removing hub bolt
Drive shaft puller	JPDIG0152ZZ	Removing drive shaft joint sub assembly
Replacer	ZXA0700D	Removing sensor rotor
Puller	ZZA0119D	Removing sensor rotor
Drift 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	a bloc S-NT117	Installing sensor rotor

Oil and Grease

Name	Application	Note
Multi-purpose grease 40037S000	Apply paste matching of drive shaft, wheel hub assembly	_

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, re	pair o	r repla	ace th	ese p	arts.	
						L

Reference			I	<u>RAX-13</u>	I	RAX-8	I	NVH in DLN section.	NVH in DLN section.	NVH in RAX and RSU sections.	Refer to REAR 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.	RA F
Possible cause	and SUSPECT	ED 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	G H I J
	DRIVE	Noise	×	×	_	_	—	×	×	×	×	×	×	_	×	×	
	SHAFT	Shake	×	—	×	—	—	×	_	×	×	×	×	—	×	×	K
		Noise	-	—	-	×	×	×	×	×	-	×	×	×	×	×	
Symptom		Shake	—	—	-	×	×	×	—	×	—	×	×	×	×	×	
Symptom		Vibration	-	—	-	×	×	×	—	×	—	×	-	×	—	×	
		Shimmy	—	—	—	×	×		_	×	_	×	×	-	×	×	
		Judder	—	—	-	×	—	—	-	×	—	×	×	-	×	×	N
		Poor quality ride or handling	-	—	-	×	×	—	—	×	—	×	×	-	—	-	

×: Applicable, —: Not applicable

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PERIODIC MAINTENANCE REAR WHEEL HUB AND HOUSING

Inspection

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MOUNTING INSPECTION

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

WHEEL BEARING INSPECTION

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

Axial end play : Refer to <u>RAX-21, "Wheel Bearing"</u>.

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

< PERIODIC MAINTENANCE > REAR DRIVE SHAFT

Inspection	INFOID:000000012789824	A
 Check drive shaft mounting point and joint for looseness and other damage. Check boot for cracks and other damage. 		В
Replace entire drive shaft assembly when noise or vibration occurs from drive shaft.		С

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< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION REAR WHEEL HUB AND HOUSING

Exploded View

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: Always replace after every disassembly.

Removal and Installation

REMOVAL

Wheel Hub and Bearing Assembly

- 1. Remove tire with power tool. Refer to WT-74, "Removal and Installation".
- Remove wheel hub lock nut. CAUTION:
 - Never use a power tool.
 - When rotation of locknut does not turn smoothly, release stacked area is performed again.
- a. Using lock nut chisel (SST: KV40108800) (A), release stacked area of wheel hub lock nut.



REAR WHEEL HUB AND HOUSING

< REMOVAL AND INSTALLATION >

NOTE:

Stacked area is about 25.0 mm (0.98 in) (A) of wheel hub lock nut.

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- Patch wheel hub lock nut with a piece of wood. Hammer the wood to disengage wheel hub and bearing assembly from drive shaft. Take out the wheel hub lock nut. CAUTION:
 - Never place drive shaft joint at an extreme angle. Also never 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 and bearing assembly and drive shaft cannot be separated even after performing the above procedure.

- 4. Remove caliper assembly. Hang caliper assembly in a place where it will not interfere with work.
 - 1 piston type: refer to <u>BR-73</u>, "<u>BRAKE CALIPER ASSEMBLY (1 PISTON TYPE)</u>: <u>Removal and Installa-</u> tion".
 - 2 piston type: refer to <u>BR-79</u>, "<u>BRAKE CALIPER ASSEMBLY</u> (2 <u>PISTON TYPE</u>) : <u>Removal and Installa-</u> tion".

CAUTION:

Never depress brake pedal while brake caliper is removed.

- 5. Remove disc rotor. If disc rotor cannot be removed, remove as follows. CAUTION:
 - Parking brake completely in the released position.
 - Put matching marks on the wheel hub and bearing 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 B to retract and loosen brake shoe.



- Remove parking brake shoe and parking brake cable from back plate. Refer to <u>PB-12, "Removal and PB-9, "Removal and Installation"</u>.
- 7. Set suitable jack under axle housing. CAUTION:

Check that jack supporting status is stable.

- 8. Remove shock absorber from axle housing. Refer to <u>RSU-9</u>, "Removal and Installation".
- 9. Remove toe control link from axle housing. Refer to RSU-20, "Removal and Installation".

REAR WHEEL HUB AND HOUSING

< REMOVAL AND INSTALLATION >

- 10. Remove rear lower link from axle housing side. Refer to RSU-18, "Removal and Installation".
- 11. Remove front lower link from axle housing side. Refer to RSU-16, "Removal and Installation".
- 12. Remove height sensor from suspension arm (left side). Refer to EXL-222, "Removal and Installation".
- 13. Remove stabilizer connecting rod from suspension arm. Refer to RSU-22, "Removal and Installation".
- 14. Remove drive shaft from axle housing.
- 15. Remove cotter pin, then loosen suspension arm mounting nut of axle housing.
- 16. 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.
- 17. Remove axle housing.
- 18. Remove wheel hub and bearing assembly.
- 19. Remove anchor block and back plate.
- 20. Remove hub bolts ① from wheel hub and bearing 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 and bearing assembly.
 - Pull out the hub bolt in a direction perpendicular to the wheel hub and bearing assembly.
- 21. Perform inspection after removal. Refer to RAX-12, "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 and bearing assembly, and hub bolt.
 - Never reuse hub bolt.
- Clean the matching surface of wheel hub lock nut and wheel hub and bearing assembly.

CAUTION:

Never apply lubricating oil to these matching surface.

 Clean the matching surface of drive shaft and wheel hub and bearing 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





REAR WHEEL HUB AND HOUSING

< REMOVAL AND INSTALLATION >

 When installing drive shaft, change the drive shaft and wheel hub and bearing assembly matching marks put at the removal step by 180 degree.

CAUTION:

Never overlap drive shaft stacked area (A) and wheel hub bolts 1.



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

: 100 – 105 N·m (10 – 11 kg-m, 74 – 77 ft-lb) Ū,

CAUTION:

- Never reuse wheel hub lock nut.
- 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. NOTE:

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

• Using lock nut crimp punch (SST: KV40108700) (A), stake wheel hub lock nut and drive shaft staked area.



NOTE:

Use the following range for stacking the whell hub lock nut.

- Α : 6.2 mm (0.244 in)
- В : 26.4 – 27.8 mm (1.039 – 1.094 in)



- · Perform the final tightening of each of parts under unladen conditions, which were removed when removing wheel hub and bearing assembly and axle housing.
- Perform inspection after installation. Refer to <u>RAX-12</u>, "Inspection".

< REMOVAL AND INSTALLATION >

Inspection

INSPECTION AFTER REMOVAL

Wheel Hub and Bearing Assembly

Check the wheel hub and bearing 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 <u>RSU-5. "Inspec-</u>tion".

INSPECTION AFTER INSTALLATION

- 1. Adjust parking brake operation (stroke). Refer to PB-6, "Inspection and Adjustment".
- 2. Check wheel alignment. Refer to RSU-6, "Inspection".
- 3. Adjust neutral position of steering angle sensor. Refer to <u>BRC-91, "Description"</u>.

< REMOVAL AND INSTALLATION >

REAR DRIVE SHAFT

Exploded View

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< REMOVAL AND INSTALLATION >

a. Using lock nut chisel (SST: KV40108800) (A), release stacked area of wheel hub lock nut.



NOTE:

Stacked area is about 25.0 mm (0.98 in) (A) of wheel hub lock nut.



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

NOTE:

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

- 10. Remove drive shaft from axle housing.
- 11. Perform inspection after removal. Refer to RAX-20, "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 and bearing assembly. CAUTION:

Never apply lubricating oil to these matching surface.

 Clean the matching surface of drive shaft and wheel hub and bearing 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 and bearing assembly matching marks put at the removal step by 180 degree.
 CAUTION:

< REMOVAL AND INSTALLATION >

- Never overlap drive shaft stacked area (A) and wheel hub bolts
- 1.



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

C : 100 – 105 N·m (10 – 11 kg-m, 74 – 77 ft-lb)

CAUTION:

- Never reuse wheel hub lock nut.
- 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. NOTE:

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

• Using lock nut crimp punch (SST: KV40108700) (A), stake wheel hub lock nut and drive shaft staked area.



NOTE:

Use the following range for stacking the wheel hub lock nut.

- A : 6.2 mm (0.244 in)
- B : 26.4 27.8 mm (1.039 1.094 in)



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

Final Drive Side

• Replace rear final drive side oil seal. Refer to <u>DLN-181, "Removal and Installation"</u>.

< REMOVAL AND INSTALLATION >

 Place the protector (A) [SST: KV38106700 (J-34296)] 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:

Check that circular clip is completely engaged.



WHEEL SIDE

WHEEL SIDE : Disassembly and Assembly

DISASSEMBLY

1. Fix shaft with a vise. CAUTION: Protect shaft when fixing

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.
- 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.
- 5. Remove circular clip from shaft.
- 6. Remove boot from shaft.

ASSEMBLY

- 1. 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.





< REMOVAL AND INSTALLATION >

- 3. 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.
- 4. Remove the tape wrapped around the serrated on shaft.
- 5. Position circular clip 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 axles of the shaft edge and joint sub-assembly. Then assemble shaft with circular clip joint sub-assembly.
- 7. Install joint sub-assembly to shaft using plastic hammer. CAUTION:

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

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

Gr	eas	e a	m	ou	Int

: Refer to RAX-21, "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 "*" 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 (L) 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.
 - L : Refer to RAX-21, "Drive Shaft".

CAUTION:

- If the boot installation length is outside the standard, it may cause breakage of the boot.
- Never 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.



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< REMOVAL AND INSTALLATION >

• 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. Secure joint sub-assembly and shaft, and then make sure that they are in the correct position when rotating boot. Install them with boot band when boot installation positions become incorrect.

CAUTION:

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

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DISASSEMBLY

- 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).
- 5. Remove boot bands, and then remove boot from housing.
- 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.
- 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.



ASSEMBLY

1. Remove old grease on housing with paper waste.



< REMOVAL AND INSTALLATION >

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 (A) 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.
- 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 <u>RAX-21, "Drive</u> <u>Shaft"</u>.

- 8. Install housing.
- Install stopper ring to housing. CAUTION:

Never reuse stopper ring.

- 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.

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 (L) 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.

L : Refer to <u>RAX-21, "Drive</u> <u>Shaft"</u>.

CAUTION:

- If the boot installation length is outside the standard, it may cause breakage of the boot.
- Never touch the inside of the boot with the tip of tool.
- 13. Install boot bands securely.

CAUTION: Never reuse boot band.

a. Put boot band in the groove on drive shaft boot. Then fit pawls into holes to temporary installation. **NOTE:**







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< REMOVAL AND INSTALLATION >

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

b. Pinch projection on the band with suitable pliers to tighten band.



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c. Insert the tip of band into the lower part of pawl (marked with dotted circle) as shown in the figure.

- 14. Check that location stays in the correct position when housing and shaft are secured and boot is rotated. CAUTION:
 - Install again when location does not stay in the correct position.
 - 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-20. "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.
- Check sensor rotor for cracks or other damage.



INSPECTION AFTER ASSEMBLY

Check sensor rotor for cracks or other damage.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS) SERVICE DATA AND SPECIFICATIONS (SDS)

Wheel Bearing

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ltem			Standard	
Axial end play		0.	05 mm (0.002 in) or less	0
Drive Shaft			INF01D:000000012789	⁸³⁴ RAX
Itom		Star	ndard	
nem	Whe	el side	Final drive side	E
Grease quantity	110 – 120 g (3.88 – 4.23 oz)	140 – 150 g (4.94 – 5.29 oz)	
Boots installed length	146.7 mi	m (5.78 in)	200.5 mm (7.89 in)	
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				G
				Н
				I
				J
				K
				L
				Μ
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