

SECTION **RAX**  
REAR AXLE

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RAX

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# PRECAUTIONS

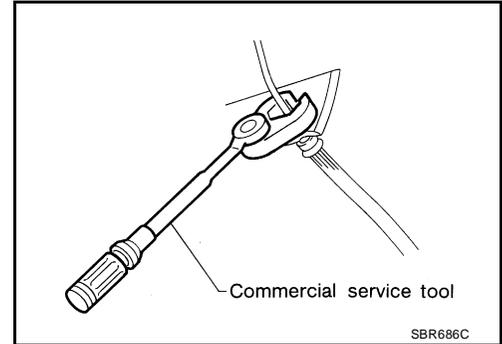
## PRECAUTIONS

PF0:00001

### Precautions

EDS0009D

- When installing each rubber part, final tightening must be carried out under unladen condition\* with tires on ground.  
\*: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
- Use flare nut wrench when removing or installing brake tubes.
- After installing removed suspension parts, check wheel alignment.
- Do not jack up at the trailing arm and lateral link.
- Always torque brake lines when installing.



# PREPARATION

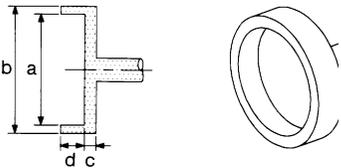
## PREPARATION

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### Special Service Tools

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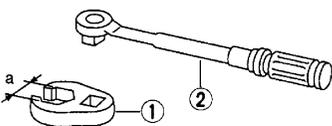
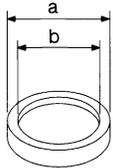
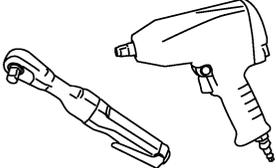
The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
ST15310000 (      —      ) Drift	 Install ABS sensor rotor <b>a: 84 mm (3.31 in) dia.</b> <b>b: 96 mm (3.78 in) dia.</b> <b>c: 8 mm (0.31 in)</b> <b>d: 20 mm (0.79 in)</b>

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### Commercial Service Tools

EDS0009F

Tool name	Description
GG94310000 1 Flare nut crowfoot 2 Torque wrench	 Removing and installing brake piping <b>a: 10 mm (0.39 in)</b>
Drift	 Install ABS sensor rotor <b>a: 75 mm (2.95 in) dia.</b> <b>b: 62 mm (2.44 in) dia.</b>
Power tool	 Loosening bolts and nuts

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# NOISE, VIBRATION, AND HARSHNESS(NVH) TROUBLESHOOTING

## NOISE, VIBRATION, AND HARSHNESS(NVH) TROUBLESHOOTING

PF:00003

### NVH Troubleshooting Chart

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

Reference page		<a href="#">RSU-8, "Removal and Installation"</a>	<a href="#">RSU-8, "Removal and Installation"</a>	<a href="#">RAX-5</a>	<a href="#">WT-2, "NOISE, VIBRATION, AND HARSHNESS (NVH) TROUBLESHOOTING"</a>	<a href="#">WT-2, "NOISE, VIBRATION, AND HARSHNESS (NVH) TROUBLESHOOTING"</a>	
Possible cause and SUSPECTED PARTS		Improper installation, looseness	Parts interference	Wheel bearing damage	TIRES	ROAD WHEEL	
Symptom	REAR AXLE	Noise	x	x	x	x	
		Shake	x	x	x	x	
		Vibration	x	x		x	
		Shimmy	x	x		x	x
		Judder	x			x	x
		Poor quality ride or handling	x	x	x	x	x

x: Applicable

# WHEEL HUB

## WHEEL HUB

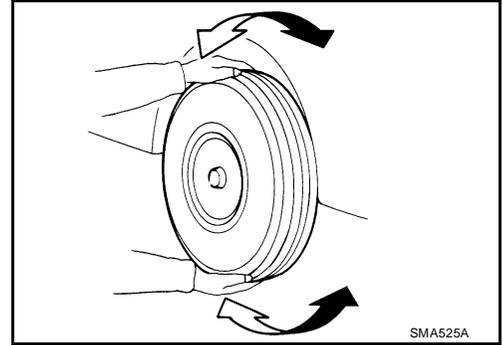
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### On-vehicle Service

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Check axle and suspension parts for excessive play, wear or damage.

- Shake each rear wheel to check for excessive play.

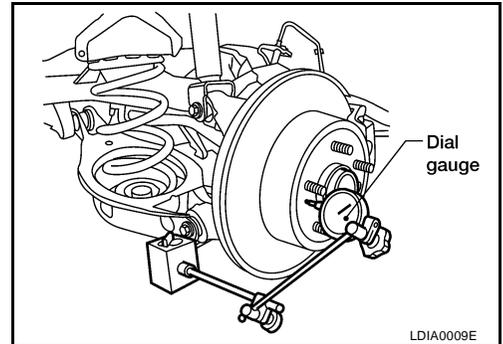


### REAR WHEEL BEARING

- Check axial end play.

**Axial end play : 0.1 mm (0.0040 in) or less**

- Check that wheel hub bearings operate smoothly.
- Replace wheel bearing assembly if there is axial end play or wheel bearing does not turn smoothly. Refer to [RAX-6](#), "[Removal and Installation](#)".



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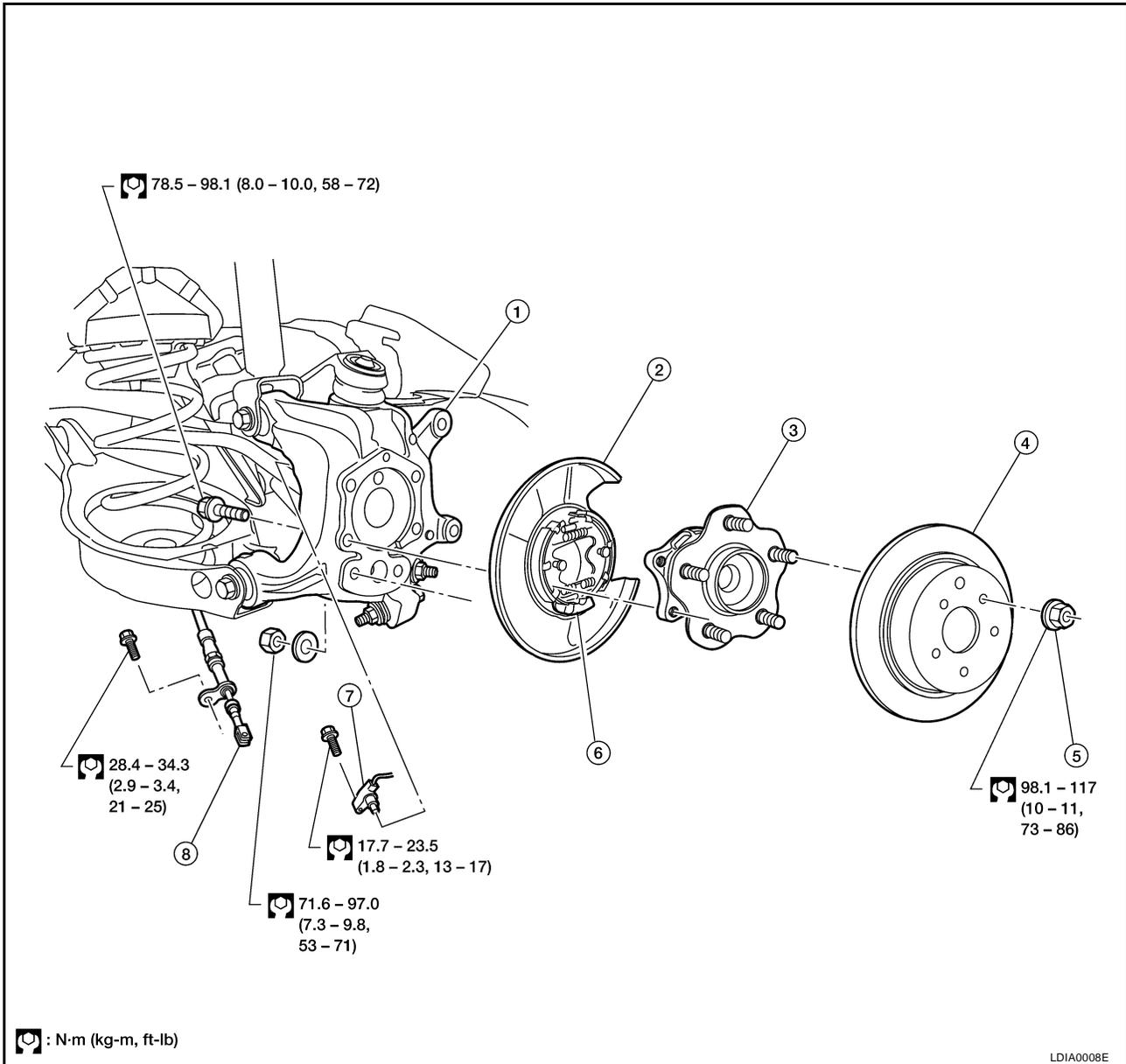
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# WHEEL HUB

## Removal and Installation

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- |                            |                        |                 |
|----------------------------|------------------------|-----------------|
| 1. Spindle                 | 2. Baffle plate        | 3. Wheel hub    |
| 4. Brake rotor             | 5. Wheel nut           | 6. Anchor block |
| 7. ABS sensor, if equipped | 8. Parking brake cable |                 |

### REMOVAL

#### CAUTION:

- Before removing the rear wheel hub assembly, disconnect the ABS sensor and parking brake cable from the assembly. Then move it away from the hub assembly. Failure to do so may result in damage to the sensor wires and the sensor becoming inoperative.
  - Wheel hub bearing does not require maintenance. If any of the following symptoms are noted, replace wheel hub bearing assembly.
  - Growling noise is emitted from wheel hub bearing during operation.
  - Wheel hub bearing drags or turns roughly. This occurs when turning hub by hand after bearing lock nut is tightened to specified torque.
1. Remove brake caliper assembly, using power tool.
  2. Remove brake rotor.
  3. Remove wheel hub from spindle.  
Brake hose does not need to be disconnected from brake caliper.

RAX-6

# WHEEL HUB

Suspend caliper assembly with wire so as not to stretch brake hose.  
Be careful not to depress brake pedal, or piston will pop out.  
Make sure brake hose is not twisted.

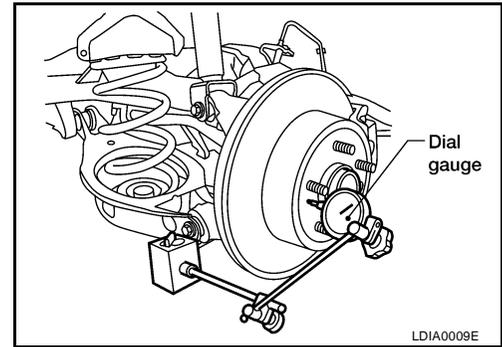
## INSPECTION AFTER REMOVAL

- Check for deformity, cracks and damage on wheel hub, replace if necessary.

## INSTALLATION

- Install wheel hub.
- Check that wheel bearings operate smoothly.
- Check wheel hub bearing axial end play.

**Axial end play : 0.1 mm (0.0040 in) or less**



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# SERVICE DATA AND SPECIFICATIONS (SDS)

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## SERVICE DATA AND SPECIFICATIONS (SDS)

PF:00030

### Wheel Bearing (Rear)

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Wheel bearing axial end play	0.1 mm (0.0040 in) or less
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