

SECTION **RAX**
REAR AXLE

A
B
C

RAX

CONTENTS

E

PRECAUTIONS	2	On-Vehicle Service	5	F
Precautions	2	REAR WHEEL BEARING	5	
PREPARATION	3	Removal and Installation	6	
Commercial Service Tools	3	REMOVAL	6	G
NOISE, VIBRATION, AND HARSHNESS (NVH)		INSPECTION AFTER REMOVAL	7	
TROUBLESHOOTING	4	INSTALLATION	7	H
NVH Troubleshooting Chart	4	SERVICE DATA AND SPECIFICATIONS (SDS)	8	
WHEEL HUB	5	Wheel Hub Assembly (Rear)	8	

I
J
K
L
M

PRECAUTIONS

PRECAUTIONS

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Precautions

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- When installing each rubber part, the final tightening must be carried out under unladen condition* with the tires on the ground.
* Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
- After installing the suspension components, check the wheel alignment.
- Do not jack up the vehicle at the rear lower link, front lower link, or the radius rod.

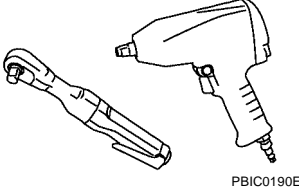
PREPARATION

PREPARATION

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Commercial Service Tools

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Tool name	Description
<p data-bbox="162 296 272 323">Power tool</p>  <p data-bbox="852 499 922 514">PBIC0190E</p>	<p data-bbox="1015 296 1266 323">Loosening bolts and nuts</p>

A
B
C
RAX

E
F
G
H
I
J
K
L
M

NOISE, VIBRATION, AND HARSHNESS (NVH) TROUBLESHOOTING

NOISE, VIBRATION, AND HARSHNESS (NVH) TROUBLESHOOTING

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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			RAX-6, "Removal and Installation"	RAX-6, "Removal and Installation"	RAX-5	WT-2, "NVH Troubleshooting Chart"	WT-2, "NVH Troubleshooting Chart"
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
		Shudder	x			x	x
		Poor quality ride or handling	x	x	x	x	x

x: Applicable

WHEEL HUB

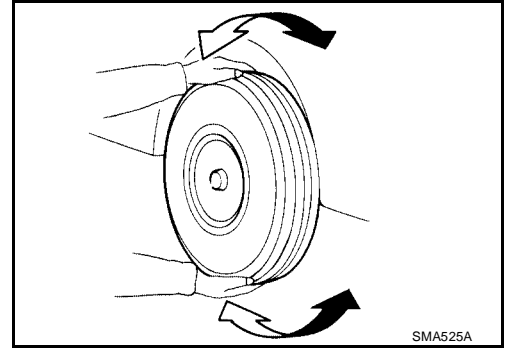
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WHEEL HUB

On-Vehicle Service

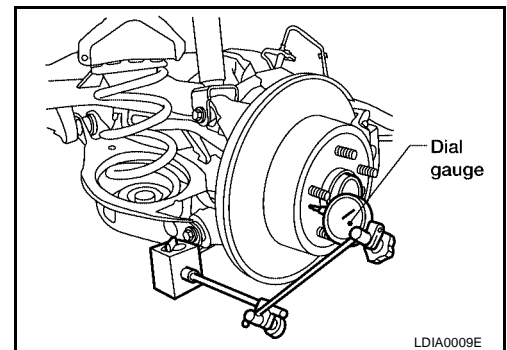
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- Check the axle and suspension parts for excessive play, wear, or damage.
- Shake each rear wheel to check for excessive play as shown.



REAR WHEEL BEARING

- Check that the axial end play is within specification.
Axial end play : 0.1 mm (0.004 in) or less
- Check that the wheel hub bearings operate smoothly.
- Replace the wheel hub assembly if the axial end play is not within specification or the wheel hub assembly does not turn smoothly. Refer to [RAX-6, "Removal and Installation"](#).

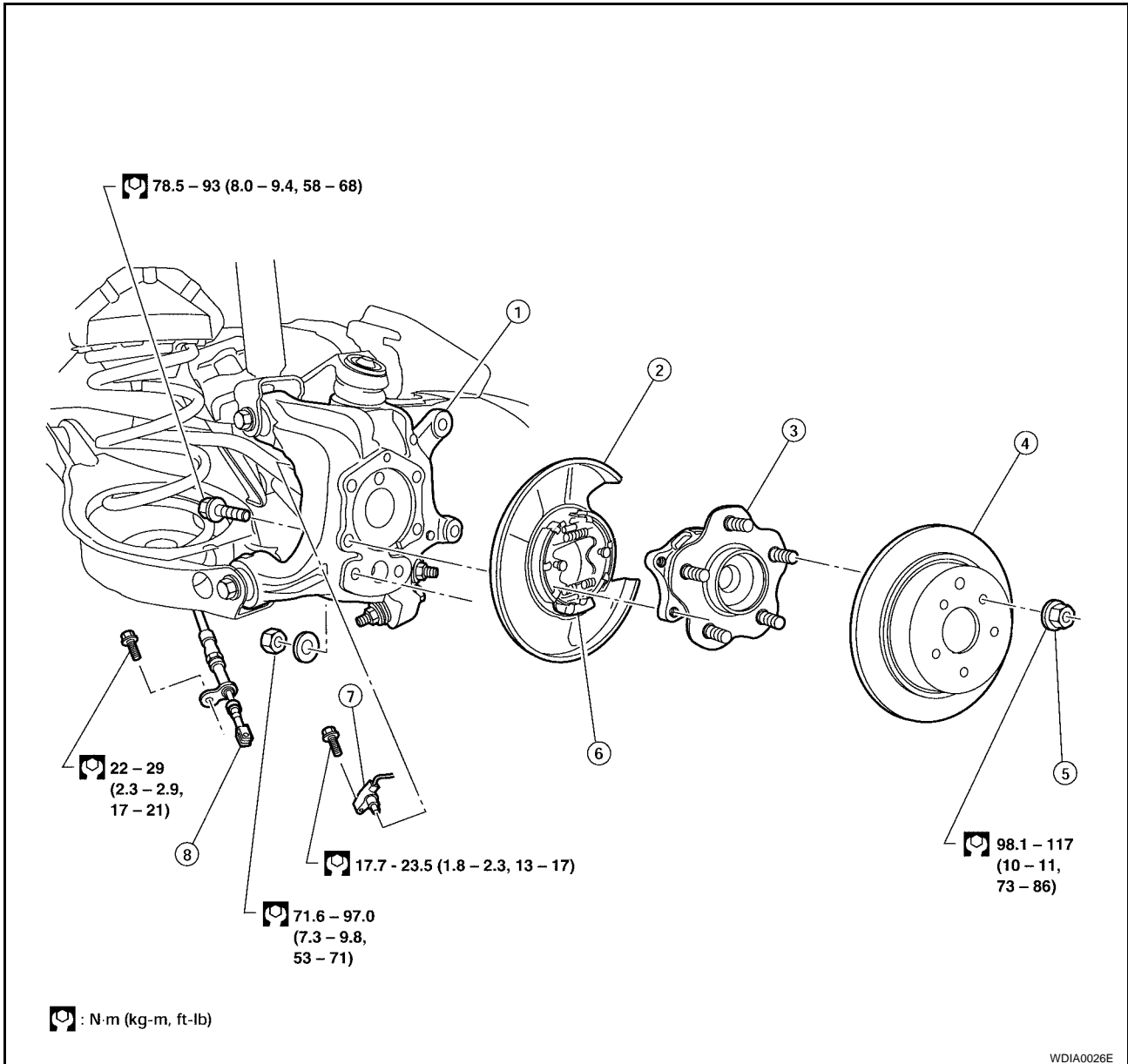


A
B
C
RAX
E
F
G
H
I
J
K
L
M

WHEEL HUB

Removal and Installation

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

REMOVAL

CAUTION:

Wheel hub assembly does not require maintenance. If any of the following symptoms are noted, replace the wheel hub assembly.

- A growling noise is emitted from the wheel hub assembly while driving.
 - The wheel hub assembly drags or turns roughly.
1. Remove the rear wheel and tire using power tool.
 2. Remove the brake caliper assembly using power tool.
 - The brake hose does not need to be disconnected from the brake caliper.
 - Suspend the brake caliper assembly using wire, do not stretch the brake hose.
 - Do not depress the brake pedal, or the caliper piston will pop out.
 - Do not twist the brake hose.
 3. Remove the brake rotor.

WHEEL HUB

4. Remove the rear ABS sensor, then move it away from the wheel hub assembly.

CAUTION:

- Failure to remove the ABS sensor may result in damage to the sensor wires and the sensor being inoperative.

5. Remove the wheel hub assembly from knuckle.

INSPECTION AFTER REMOVAL

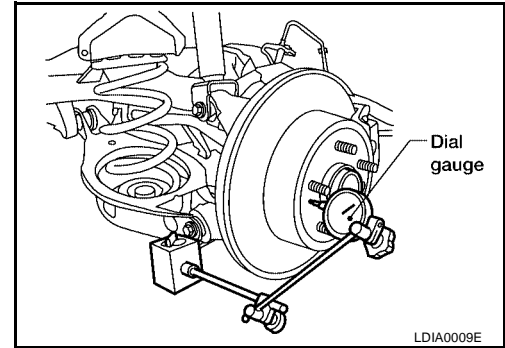
Check for any deformity, cracks, or damage on the wheel hub assembly, replace if necessary.

INSTALLATION

Installation is in the reverse order of removal.

- Check that the wheel bearings operate smoothly.
- Check that the wheel hub bearing axial end play is within specification.

Axial end play : 0.1 mm (0.004 in) or less



A
B
C
RAX
E
F
G
H
I
J
K
L
M

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

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Wheel Hub Assembly (Rear)

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Axial end play	0.1 mm (0.004 in) or less
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