

SECTION

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EXHAUST SYSTEM

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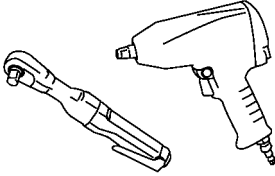
# PREPARATION

## PREPARATION

PFP:00002

### Commercial Service Tools

ABS002B8

(Kent-Moore No.) Tool name	Description
<p data-bbox="140 342 252 363">Power tool</p>  <p data-bbox="837 561 908 576">PBIC0190E</p>	<p data-bbox="999 342 1254 363">Loosening nuts and bolts</p>

# EXHAUST SYSTEM

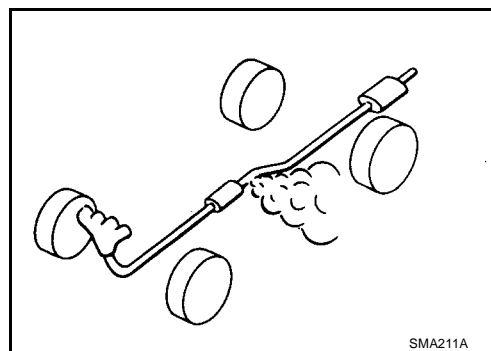
## EXHAUST SYSTEM

PFP:20100

### Checking Exhaust System

ABS002B9

Check exhaust pipes, muffler and mounting for improper attachment, leaks, cracks, damage or deterioration.



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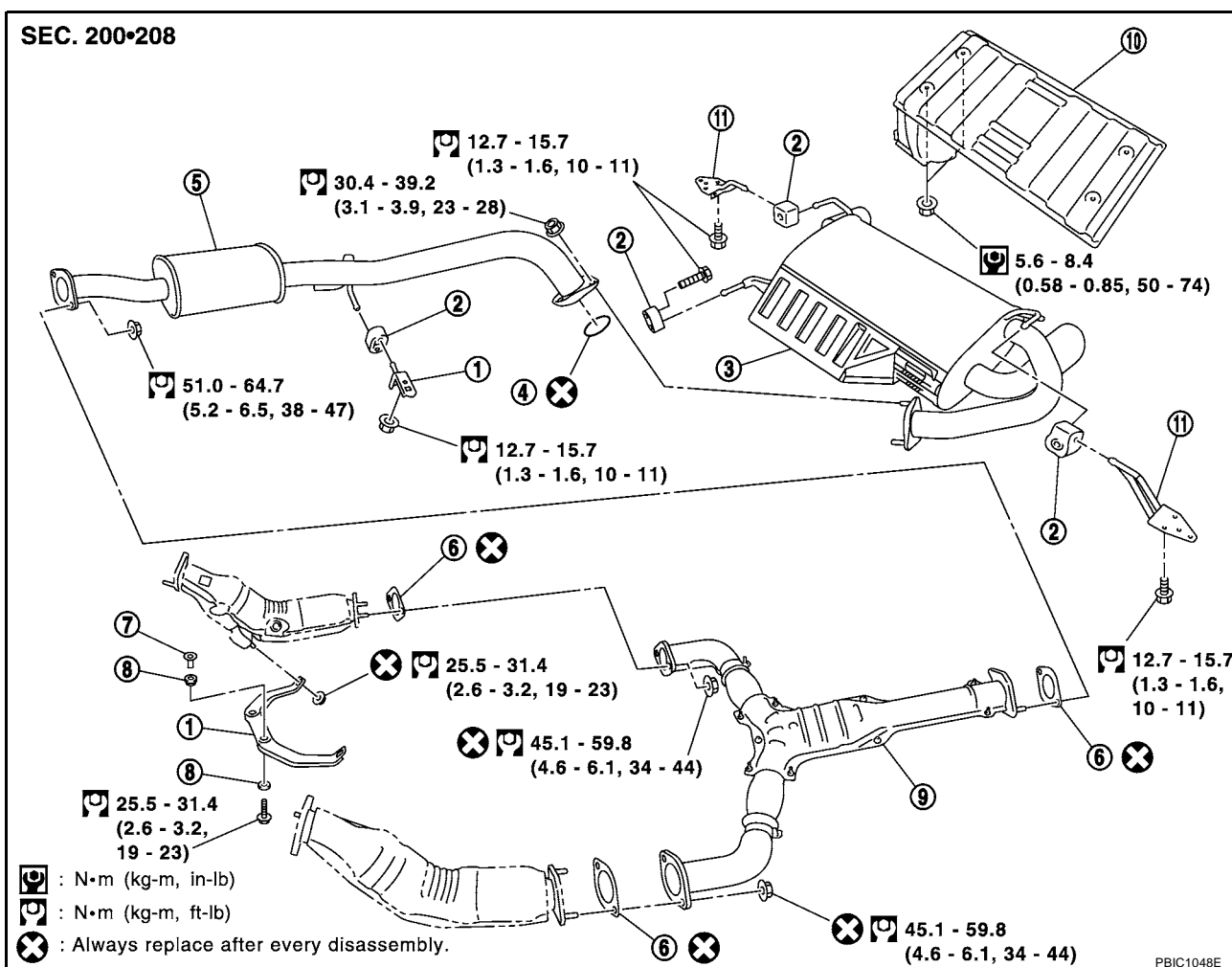
### Removal and Installation

ABS002BA

#### CAUTION:

- Be sure to use genuine exhaust system parts or equivalents which are specially designed for heat resistance, corrosion resistance, and shape.
- Perform the operation with the exhaust system fully cooled down because the system will be hot just after the engine stops.
- Be careful not to cut your hand on the insulator edge.

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- |                |                    |                 |
|----------------|--------------------|-----------------|
| 1. Bracket     | 2. Mounting rubber | 3. Main muffler |
| 4. Ring gasket | 5. Center muffler  | 6. Gasket       |

# EXHAUST SYSTEM

- |               |                                   |                       |
|---------------|-----------------------------------|-----------------------|
| 7. Collar     | 8. Grommet                        | 9. Exhaust front tube |
| 10. Insulator | 11. Main muffler mounting bracket |                       |

## REMOVAL

- Disconnect each joint and mounting using power tool.
- When removing main muffler, remove main muffler mounting bracket bolts.
- For removing and installing parts around propeller shaft, be careful of the following.

### CAUTION:

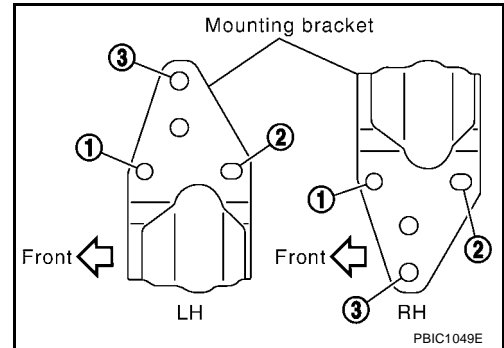
Be sure to prevent propeller shaft from interfering parts and tools. If necessary, install protector to propeller shaft to prevent damage.

For propeller shaft protector, refer to [PR-7, "Removal and Installation"](#).

## INSTALLATION

Install in the reverse order of removal paying attention to the followings.

- Tighten main muffler mounting bracket bolts in order shown in the figure.



### CAUTION:

- Always replace exhaust tube gaskets with new ones when reassembling.
- If the insulator is badly deformed, repair or replace it. If deposits such as mud pile up on the insulator, remove them.
- When installing the insulator avoid large gaps or interference between the insulator and each exhaust pipe.
- Remove deposits from the sealing surface of each connection. Connect them securely to avoid gas leakage.
- Temporarily tighten mounting nuts on the exhaust manifold side and mounting bolts on the vehicle side. Check each part for unusual interference, and then tighten them to the specified torque.
- When installing each mounting rubber, avoid twisting or unusual extension in up/down and right/left directions.

## Inspection After Installation

ABS002BB

- With the engine running, check exhaust tube joints for gas leakage and unusual noises.
- Check to ensure that mounting brackets and mounting insulators are installed properly and free from undue stress. Improper installation could result in excessive noise and vibration.

# SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

PFP:00030

### Tightening torque

ABS002BC

Unit: N·m (kg-m, ft-lb)  
N·m (kg-m, in-lb)\*

Exhaust system connections	
Between three way catalyst and exhaust front tube	45.1 - 59.8 (4.6 - 6.1, 34 - 44)
Between exhaust front tube and center muffler	51.0 - 64.7 (5.2 - 6.5, 38 - 47)
Between center muffler and main muffler	30.4 - 39.2 (3.1 - 3.9, 23 - 28)
Insulator	5.6 - 8.4 (0.58 - 0.85, 50 - 74)*
Three way catalyst mounting bracket	25.5 - 31.4 (2.6 - 3.2, 19 - 23)
Center muffler mounting bracket	12.7 - 15.7 (1.3 - 1.6, 10 - 11)
Main muffler mounting bracket	12.7 - 15.7 (1.3 - 1.6, 10 - 11)

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## SERVICE DATA AND SPECIFICATIONS (SDS)

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