

SECTION

EX

EX

EXHAUST SYSTEM

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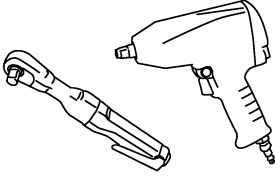
# PREPARATION

## PREPARATION

PFP:00002

### Commercial Service Tools

NBS000J4

(Kent-Moore No.) Tool name	Description
<p data-bbox="140 338 252 363">Power tool</p>  <p data-bbox="837 561 908 576">PBIC0190E</p>	<p data-bbox="997 338 1254 363">Loosening nuts and bolts</p>

## EXHAUST SYSTEM

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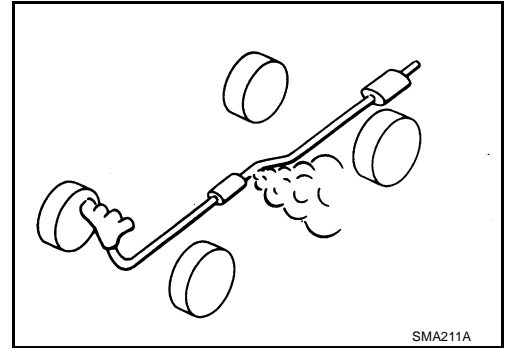
PFP:20100

## Checking Exhaust System

*NBS000J5*

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

- If anything is found, repair or replace damaged parts.

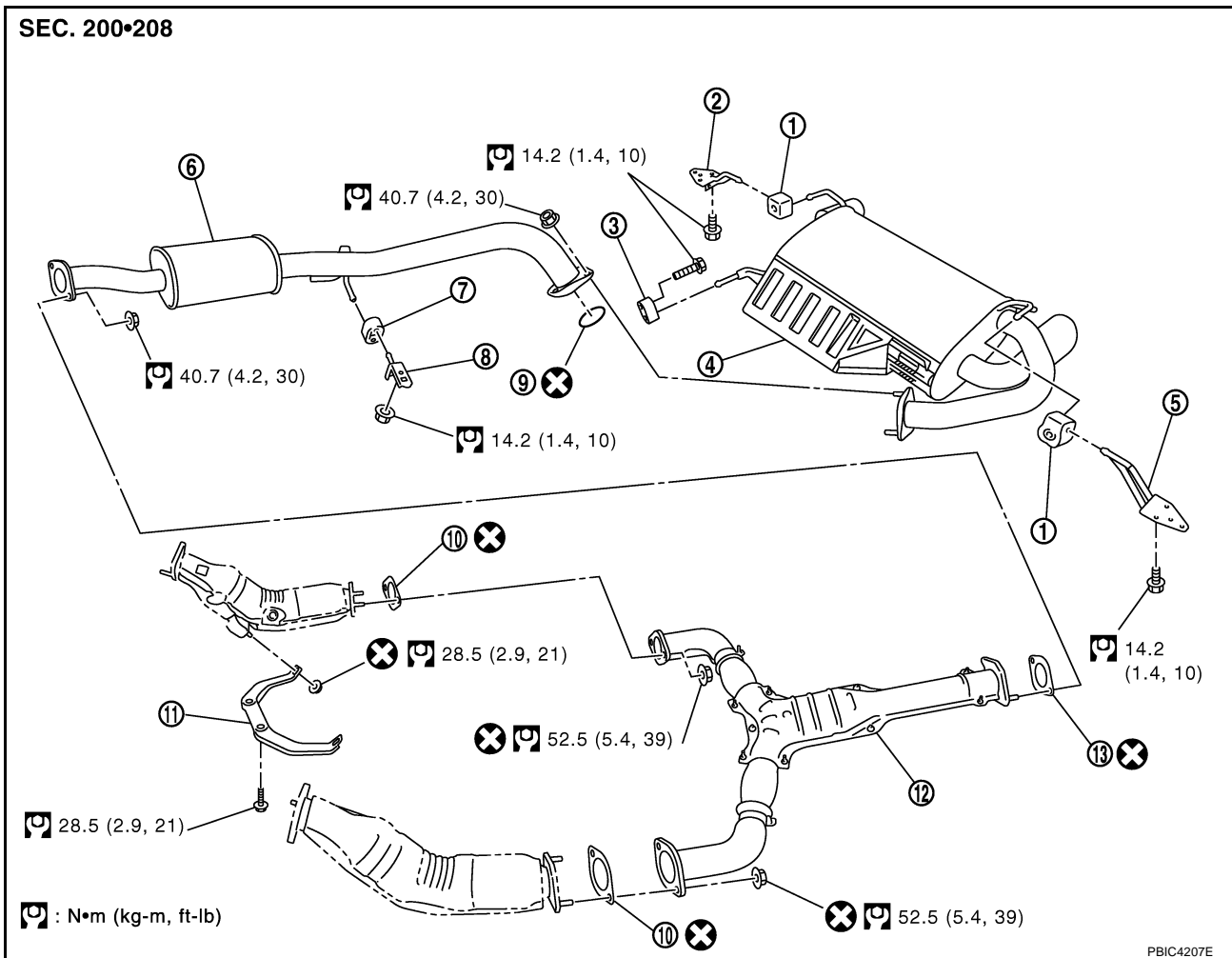


## Removal and Installation

NBS000J6

**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 engine stops.
- Be careful not to cut your hand on the insulator edge.



- |                    |                                  |                    |
|--------------------|----------------------------------|--------------------|
| 1. Mounting rubber | 2. Main muffler mounting bracket | 3. Mounting rubber |
| 4. Main muffler    | 5. Main muffler mounting bracket | 6. Center muffler  |
| 7. Mounting rubber | 8. Mounting bracket              | 9. Ring gasket     |

# EXHAUST SYSTEM

- 10. Gasket
- 13. Gasket

11. Exhaust mounting bracket

12. Exhaust front tube

- Refer to [GI-10, "Components"](#) for symbol marks in the figure.

## REMOVAL

- Disconnect each joint and mounting with 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.

### CAUTION:

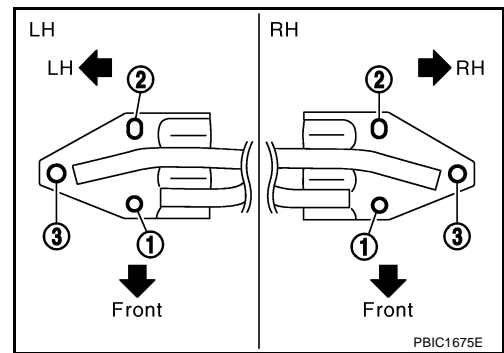
**Be sure to prevent propeller shaft from interfering parts and tools. If necessary, install protector to propeller shaft to prevent damage.**

**For propeller shaft protector, refer to [PR-5, "REAR PROPELLER SHAFT"](#) .**

## INSTALLATION

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

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

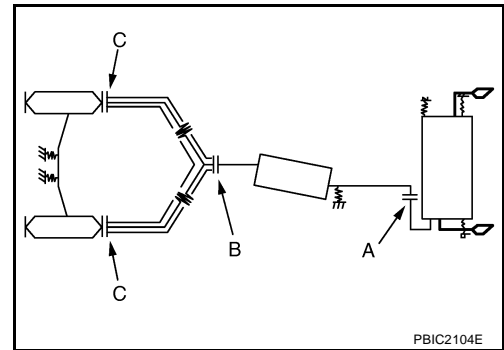


When reassembling main muffler only.

1. Temporarily tighten connecting flange (A).
2. Move main muffler front / rear / left / right so that clearance between tail tube and bumper is even.
3. Tighten connecting flange (A) to the specified torque.

When reassembling center muffler.

1. Temporarily tighten connecting flanges in order of (A) and (B).
2. Move main muffler front / rear / left / right so that clearance between tail tube and bumper is even.
3. Tighten connecting flanges in order of (A) and (B) to the specified torque.



When reassembling exhaust front tube.

1. Temporarily tighten connecting flanges of center muffler in order of (B) and (C).
2. Move main muffler front / rear / left / right so that clearance between tail tube and bumper is even.
3. Tighten connecting flanges in order of (B) and (C) to the specified torque.

### CAUTION:

- **Always replace exhaust tube gaskets with new ones when reassembling.**
- **If heat insulator is badly deformed, repair or replace it. If deposits such as mud pile up on heat insulator, remove them.**
- **When installing heat insulator avoid large gaps or interference between heat 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.**

# EXHAUST SYSTEM

## INSPECTION AFTER INSTALLATION

- Make sure that clearance between tail tube and bumper is even.
- With engine running, check exhaust tube joints for gas leakage and unusual noises.
- Make sure that mounting brackets and mounting rubbers are installed properly and free from undue stress. Improper installation could result in excessive noise and vibration.

A  
EX  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

PFP:00030

#### Tightening Torque

NBS000J7

Unit: N·m (kg-m, ft-lb)

Exhaust system connections	
Between three way catalyst and exhaust front tube	52.5 (5.4, 39)
Between exhaust front tube and center muffler	40.7 (4.2, 30)
Between center muffler and main muffler	40.7 (4.2, 30)
Exhaust mounting bracket	28.5 (2.9, 21)
Center muffler mounting bracket	14.2 (1.4, 10)
Main muffler mounting bracket	14.2 (1.4, 10)