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### **PRECAUTIONS**

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# **PRECAUTION**

## **PRECAUTIONS**

Removal and Installation

### INFOID:0000000008293720

### **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 heat insulator edge.

### **PREPARATION**

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# **PREPARATION**

## **PREPARATION**

Special Service Tool INFOID:0000000008293721

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Tool number (Kent-Moore No.) Tool name		Description
KV10114400 (J-38365) Heated oxygen sensor wrench	S-NT636	Loosening or tightening heated oxygen sensor 2 For 22 mm (0.87 in) (a) width hexagon nut

## **Commercial Service Tool**

INFOID:0000000008293722

(Kent-Moore No.) Tool name		Description
A: (J-43897-18) B: (J-43897-12) Heated oxygen sensor thread cleaner	A B B JPBIA0238ZZ	Reconditioning the exhaust system threads before installing a new heated oxygen sensor (Use with anti-seize lubricant shown below.)  A: J-43897-18 [18 mm (0.71 in) dia.] for zirconia heated oxygen sensor  B: J-43897-12 [12 mm (0.47 in) dia.] for titania heated oxygen sensor  C: Mating surface shave cylinder  D: Flutes
( — ) Anti-seize lubricant (Permatex 133AR or equivalent meeting MIL specifica- tion MIL-A-907)	M489	Lubricating heated oxygen sensor thread cleaner when reconditioning exhaust system threads
( — ) Power tool	PBICO190E	Loosening bolts and nuts

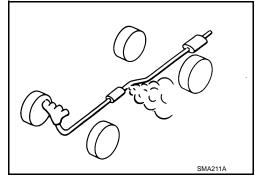
# PERIODIC MAINTENANCE

## **EXHAUST SYSTEM**

Inspection INFOID:000000008293723

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

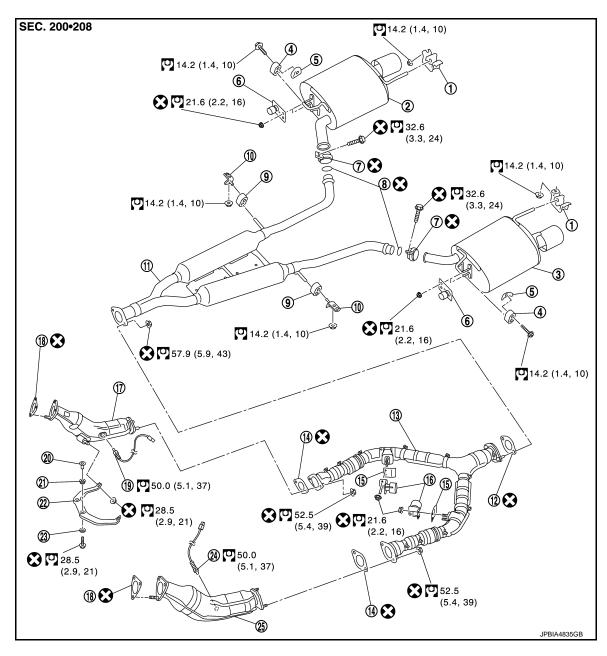
• If anything is found, repair or replace damaged parts.



# REMOVAL AND INSTALLATION

### **EXHAUST SYSTEM**

**Exploded View** INFOID:0000000008293724 ΕX



- Mounting rubber
- 4. Mounting rubber
- 7. Clamp
- 10. Mounting bracket
- Exhaust front tube 13.
- 16. Dynamic damper
- 19. Heated oxygen sensor 2 (bank 1)
- 22. Exhaust mounting bracket
- 25. Three way catalyst (bank 2)

- 2. Main muffler (RH)
- 5. Collar
- 8. Gasket
- 11. Center muffler
- Gasket 14.
- 17. Three way catalyst (bank 1)
- 20. Collar
- 23. Grommet

- Main muffler (LH) 3.
- Dynamic damper 6.
- Mounting rubber
- 12. Gasket
- Insulator 15.
- 18. Gasket
- 21. Grommet
- Heated oxygen sensor 2 (bank 2)

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Refer to GI-4, "Components" for symbols in the figure.

### Removal and Installation

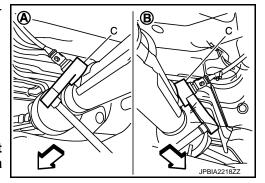
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#### **REMOVAL**

- Disconnect each joint and mounting using power tool.
- Remove heated oxygen sensor 2 as follows:
- Using heated oxygen sensor wrench [SST: KV10114400 (J-38365)] (C), removal heated oxygen sensor 2.



- Never damage heated oxygen sensor 2.
- Discard any sensor which has been dropped from a height of more than 0.5 m (19.7 in) onto a hard surface such as a concrete floor; use a new one.



#### INSTALLATION

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

- Check for deformation of the grommets (21 and 23 of Components).
- Insert the collar (20 of Components) vertically.
- Install the collar (5 of Components) with its lower surface horizontal.
- Temporarily tighten nuts and bolts when installing exhaust pipe assembly. Tighten them to the specified torque when connecting the vehicle rear to the vehicle front.

#### CAUTION

- · Always replace exhaust tube gaskets with new ones when reassembling.
- Discard any heated oxygen sensor 2 which has been dropped onto a hard surface such as a concrete floor. Use a new one.
- Before installing a new heated oxygen sensor 2, clean exhaust system threads using the heated oxygen sensor thread cleaner (commercial service tool: J-43897-18 or J-43897-12), and apply the antiseize lubricant (commercial service tool).
- Never over torque heated oxygen sensor 2. Doing so may cause damage to heated oxygen sensor 2, resulting in the "MIL" coming on.
- Prevent rust preventives from adhering to the sensor body.
- If heat insulator is badly deformed, repair or replace it. If deposits such as mud pile up on the 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 gases 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 INFOID:000000008293726

#### INSPECTION AFTER INSTALLATION

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