

SECTION **EX**
EXHAUST SYSTEM



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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

Removal and Installation

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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

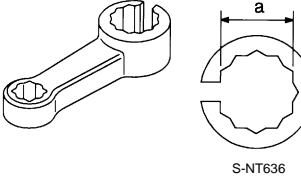
Special Service Tool

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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
KV10114400 (J-38365) Heated oxygen sensor wrench 	Loosening or tightening heated oxygen sensor 2 For 22 mm (0.87 in) (a) width hexagon nut

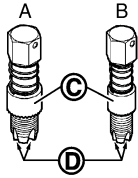

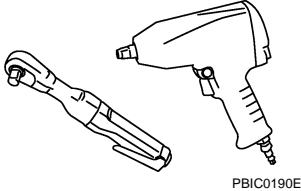
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Commercial Service Tool

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(Kent-Moore No.) Tool name	Description
A: (J-43897-18) B: (J-43897-12) Heated oxygen sensor thread cleaner 	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 dia.) for zirconia heated oxygen sensor B: J-43897-12 (12 mm dia.) for titania heated oxygen sensor C: Mating surface shave cylinder D: Flutes
(—) Anti-seize lubricant (Permatex 133AR or equivalent meeting MIL specification MIL-A-907) 	Lubricating heated oxygen sensor thread cleaner when reconditioning exhaust system threads
Power tool 	Loosening bolts and nuts

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EXHAUST SYSTEM

< ON-VEHICLE MAINTENANCE >

ON-VEHICLE MAINTENANCE

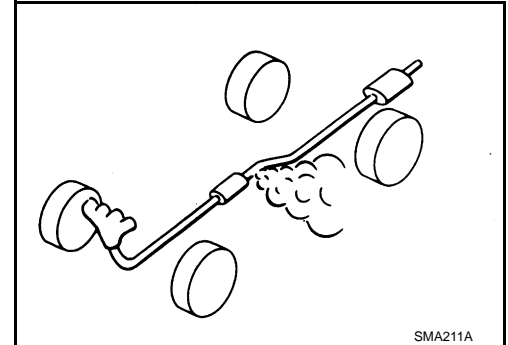
EXHAUST SYSTEM

Inspection

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

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



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EXHAUST SYSTEM

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

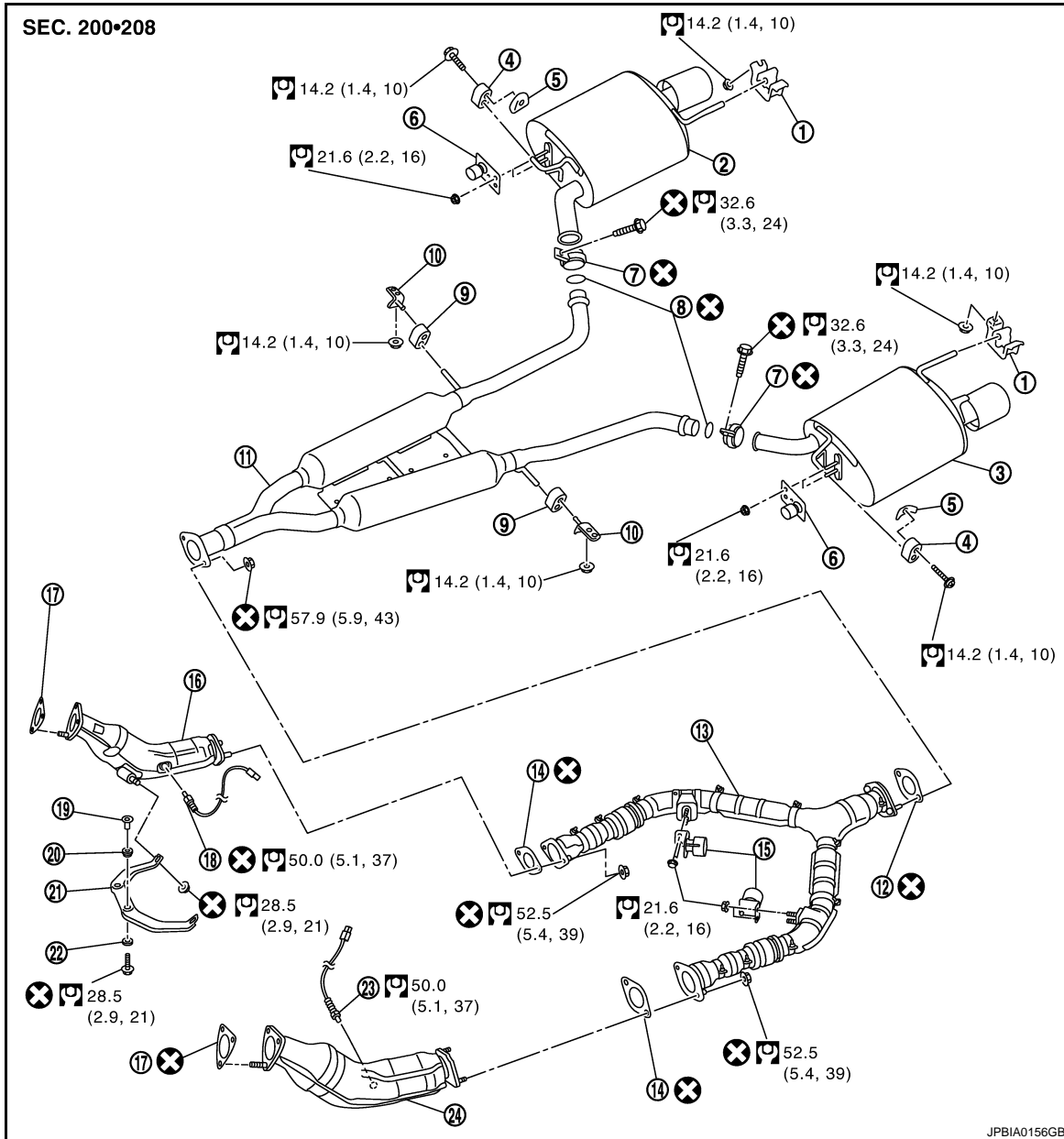
EXHAUST SYSTEM

Exploded View

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| 1. Mounting rubber | 2. Main muffler (RH) | 3. Main muffler (LH) |
| 4. Mounting rubber | 5. Collar | 6. Dynamic damper |
| 7. Clamp | 8. Gasket | 9. Mounting rubber |
| 10. Mounting bracket | 11. Center muffler | 12. Gasket |
| 13. Exhaust front tube | 14. Gasket | 15. Dynamic damper |
| 16. Three way catalyst (right bank) | 17. Gasket | 18. Heated oxygen sensor 2 (bank 1) |
| 19. Collar | 20. Grommet | 21. Exhaust mounting bracket |
| 22. Grommet | 23. Heated oxygen sensor 2 (bank 2) | 24. Three way catalyst (left bank) |

Refer to [GI-4, "Components"](#) for symbol marks in the figure.

Removal and Installation

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EXHAUST SYSTEM

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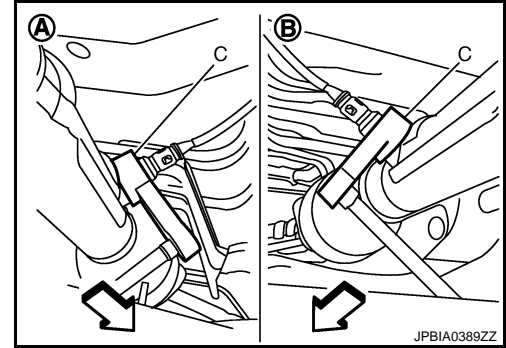
REMOVAL

- 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.

- A : Left bank
- B : Right bank
- ⇐ : Vehicle front

CAUTION:

Be careful not to damage heated oxygen sensor 2.



INSTALLATION

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

- Check for deformation of the grommets (20 and 22 of Components).
- Insert the collar (19 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 which has been dropped onto a hard surface such as a concrete floor. Use a new one.**
- **Before installing a new heated oxygen sensor, clean exhaust system threads using the heated oxygen sensor thread cleaner [commercial service tool: J-43897-18 or J-43897-12], and apply the anti-seize lubricant (commercial service tool).**
- **Do not over torque heated oxygen sensor. Doing so may cause damage to heated oxygen sensor, resulting in the “MIL” coming on.**
- **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

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INSPECTION AFTER INSTALLATION

- Make sure 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.