

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.

Precautions for Removing Battery Terminal

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- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

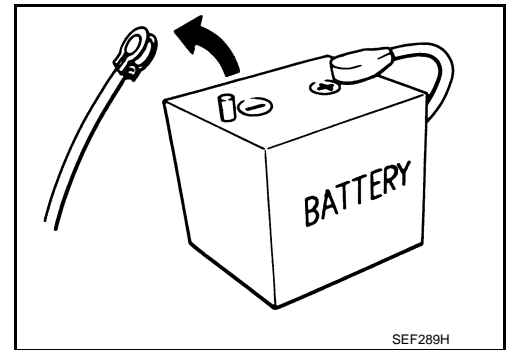
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



PREPARATION

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PREPARATION

PREPARATION

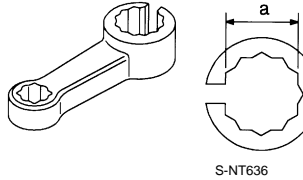
Special Service Tool

INFOID:000000010262709

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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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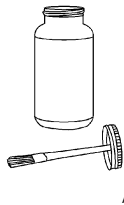
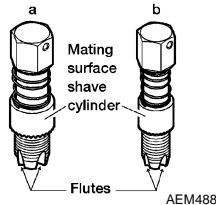
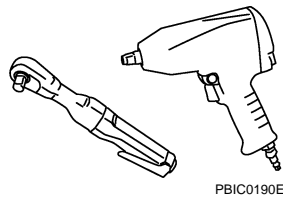
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Commercial Service Tool

INFOID:000000010262710

(Kent-Moore No.) Tool name	Description
(—) Power tool	Loosening bolts and nuts
(J-43897-18) (J-43897-12) 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 and air fuel ratio sensor b: J-43897-12 (12 mm dia.) for titania heated oxygen sensor and air fuel ratio sensor
(—) Anti-seize lubricant (Permatex 133AR or equivalent meeting MIL specification MIL-A-907)	Lubricating oxygen sensor thread cleaning tool when reconditioning exhaust system threads



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EXHAUST SYSTEM

< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE

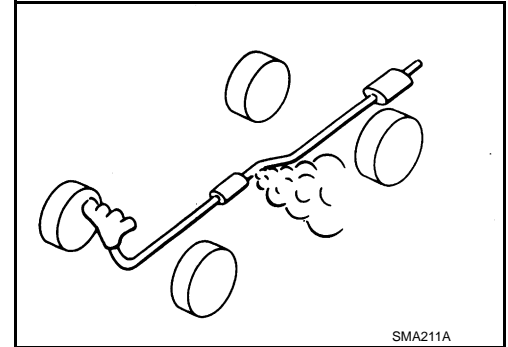
EXHAUST SYSTEM

Inspection

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

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



EXHAUST SYSTEM

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

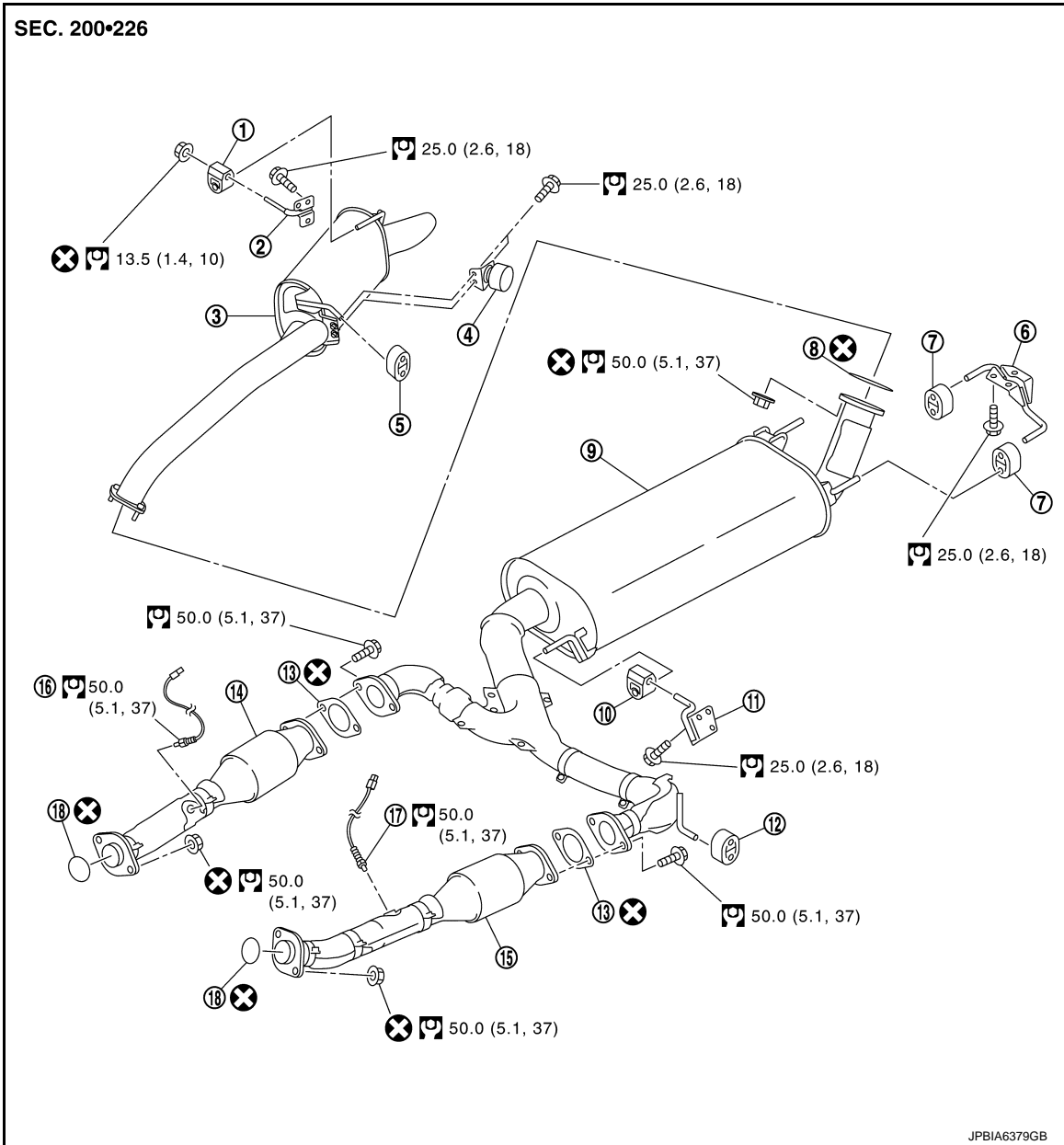
EXHAUST SYSTEM

Exploded View

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| 1. Mounting rubber | 2. Mounting bracket | 3. Rear muffler |
| 4. Dynamic damper | 5. Mounting rubber | 6. Mounting bracket |
| 7. Mounting rubber | 8. Gasket | 9. Main muffler |
| 10. Mounting rubber | 11. Mounting bracket | 12. Mounting rubber |
| 13. Gasket | 14. Exhaust front tube (RH) | 15. Exhaust front tube (LH) |
| 16. Heated oxygen sensor 2 (bank 2) | 17. Heated oxygen sensor 2 (bank 1) | 18. Ring gasket |

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

Removal and Installation

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REMOVAL

EXHAUST SYSTEM

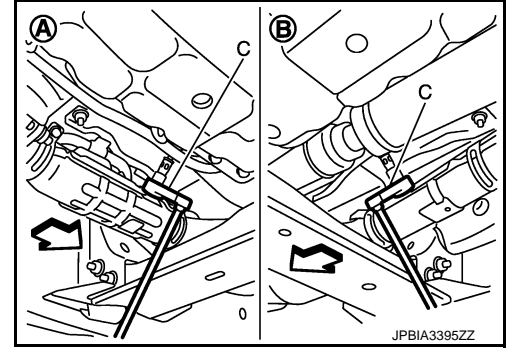
< REMOVAL AND INSTALLATION >

- 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 : Bank 1
B : Bank 2
⇐ : Vehicle front

CAUTION:

Be careful not to damage heated oxygen sensor 2.



INSTALLATION

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

- Temporarily tighten bolts and nuts 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 anti-seize 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.
- 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

- 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.