SECTION EX
EXHAUST SYSTEM

CONTENTS

PRECAUTION

PRECAUTIONS

Removal and Installation

INFOID:0000000010262707

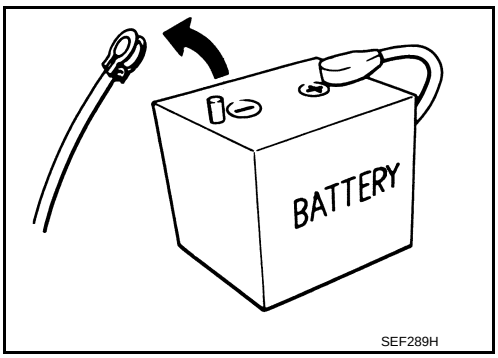
CAUTION:

- **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

INFOID:0000000010262708

- 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.



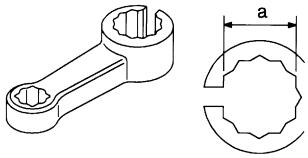
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  NOTE:
  The removal of 12V battery may cause a DTC detection error.

PREPARATION

PREPARATION

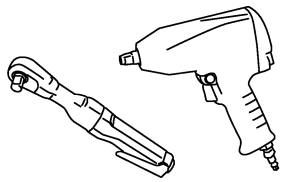
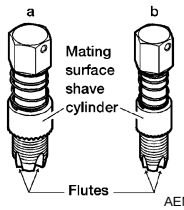
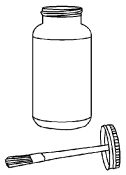
Special Service Tool

INFOID:0000000010262709

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:0000000010262710

(Kent-Moore No.) Tool name	Description
(—) Power tool  PBIC0190E	Loosening bolts and nuts
(J-43897-18) (J-43897-12) Oxygen sensor thread cleaner  AEM488	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)  AEM489	Lubricating oxygen sensor thread cleaning tool when reconditioning exhaust system threads

PERIODIC MAINTENANCE

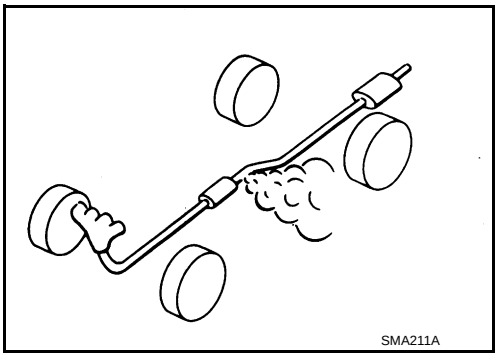
EXHAUST SYSTEM

Inspection

INFOID:0000000010262711

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

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

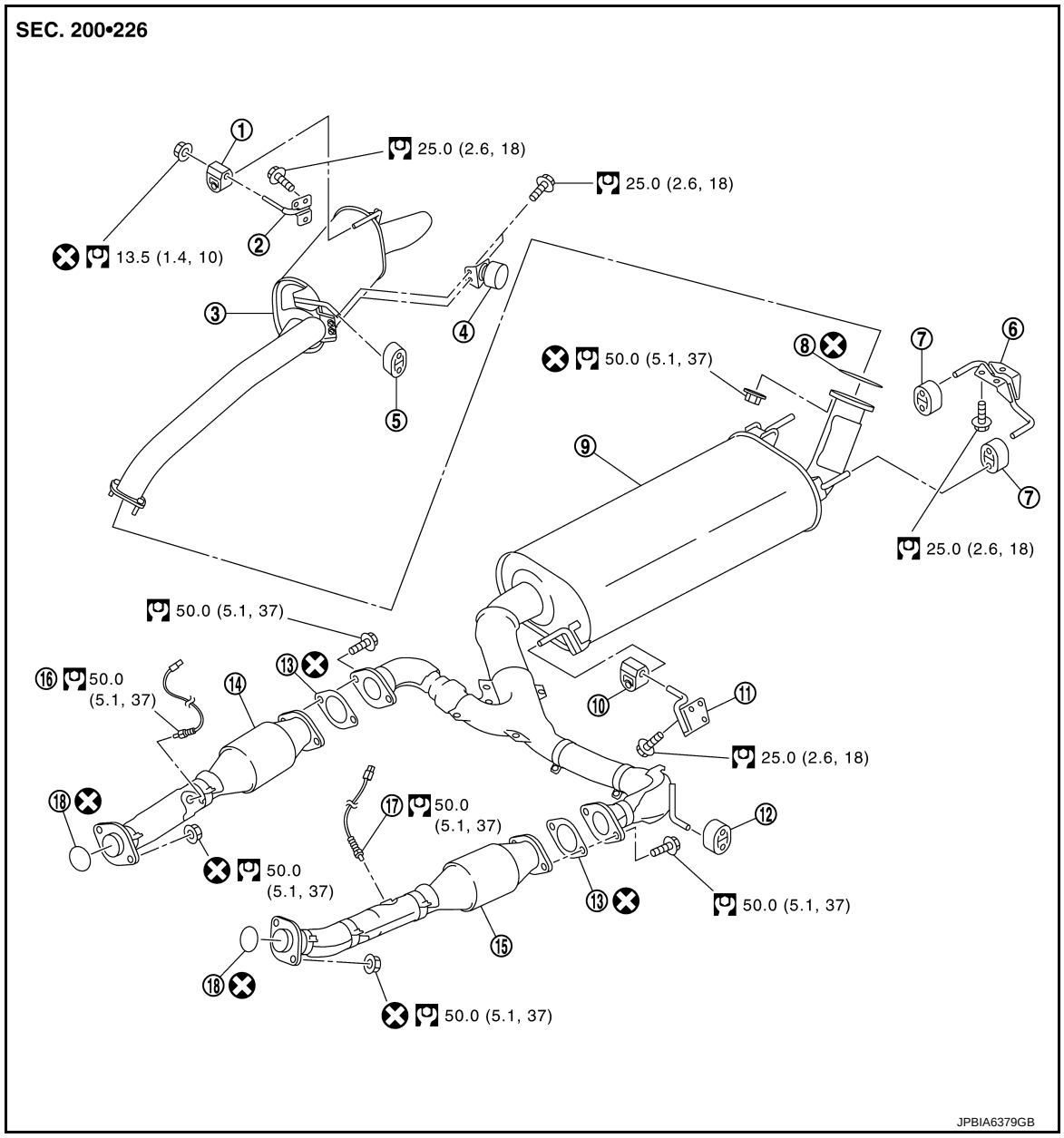


REMOVAL AND INSTALLATION

EXHAUST SYSTEM

Exploded View

INFOID:0000000010262712



1. Mounting rubber
2. Mounting bracket
3. Rear mufller
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

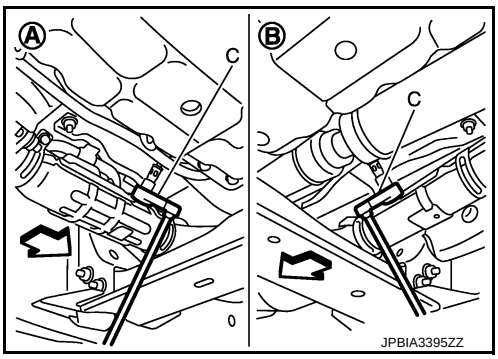
Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

INFOID:0000000010262713

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 : 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

INFOID:0000000010262714

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.