SECTION EX
EXHAUST SYSTEM

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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery or batteries, and wait at least three minutes before performing any service.**

PREPARATION

PREPARATION

Special Service Tool

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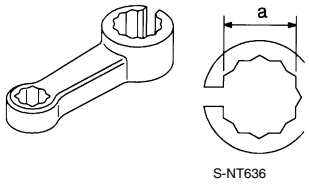
The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
KV10114400 (J-38365) Heated oxygen sensor wrench  S-NT636	Loosening or tightening heated oxygen sensors: **a: 22 mm (0.87 in)**

Commercial Service Tool

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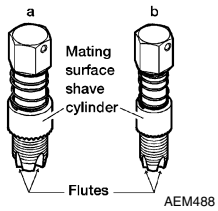
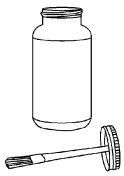
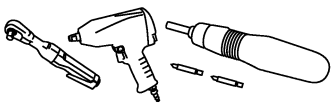
(TechMate No.) Tool name	Description
(J-43897-18) (J-43897-12) Oxygen sensor thread cleaner  AEM488	Reconditioning the exhaust system threads before installing a new oxygen sensor (Use with anti-seize lubricant shown below): **a: J-43897-18 (18 mm dia.) for zirconia oxygen sensor** **b: J-43897-12 (12 mm dia.) for titania oxygen 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
(—) Power tool  PIIB1407E	Loosening nuts, screws and bolts

PERIODIC MAINTENANCE

EXHAUST SYSTEM

Inspection

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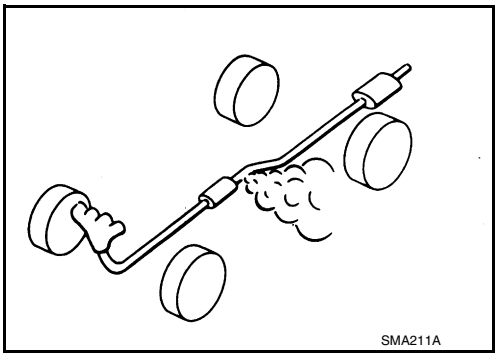
Check exhaust pipes, muffler, and mounting for improper attachment, leakage, cracks, damage or deterioration.

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



REMOVAL AND INSTALLATION

EXHAUST SYSTEM

Exploded View

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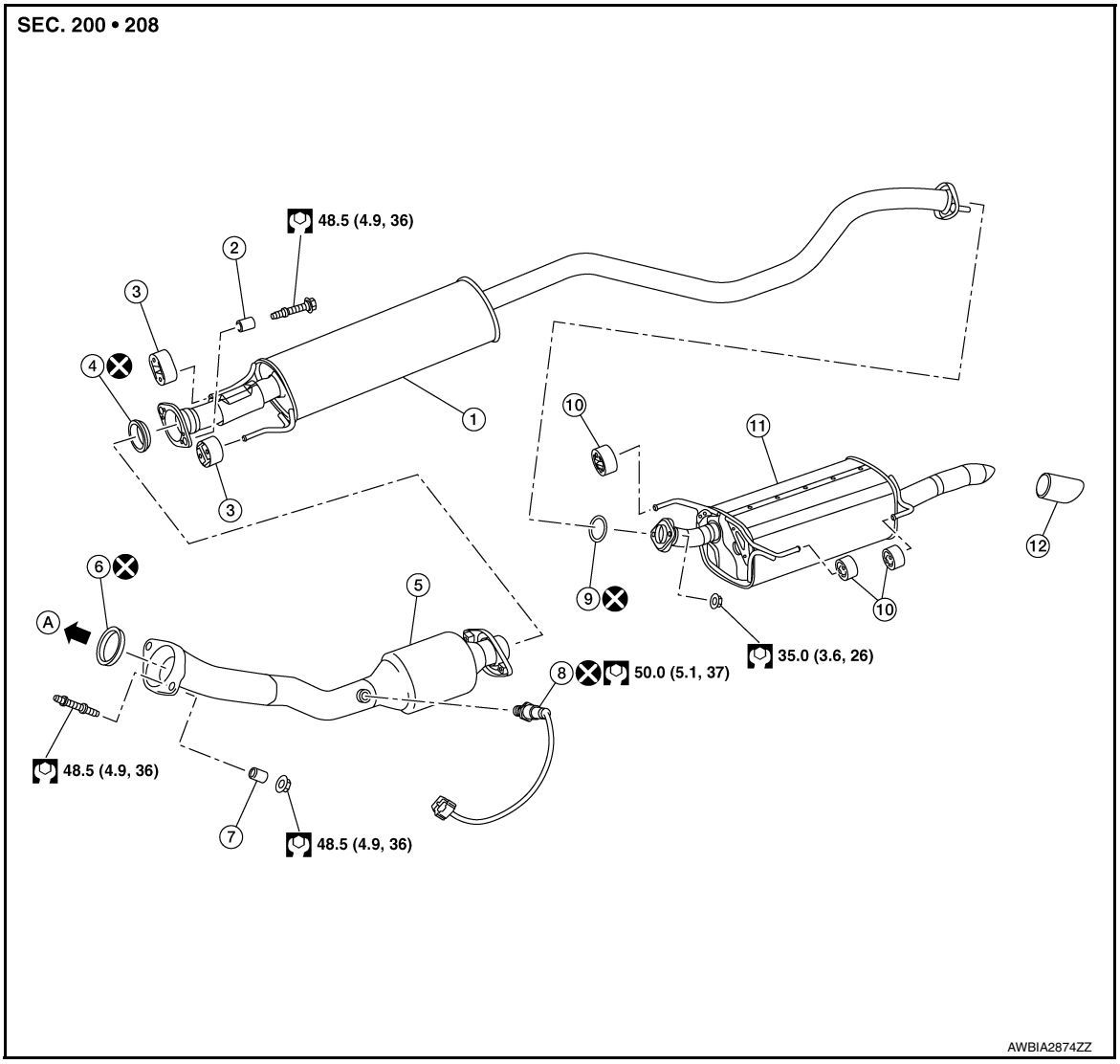
FOR CALIFORNIA



1.	Sub muffler	2.	Spring	3.	Mounting rubber
4.	Seal bearing	5.	Exhaust front tube	6.	Seal bearing
7.	Spring	8.	Heated oxygen sensor 2	9.	Ring gasket
10.	Mounting rubber	11.	Main muffler	12.	Exhaust finisher (if equipped)
A.	To exhaust manifold				

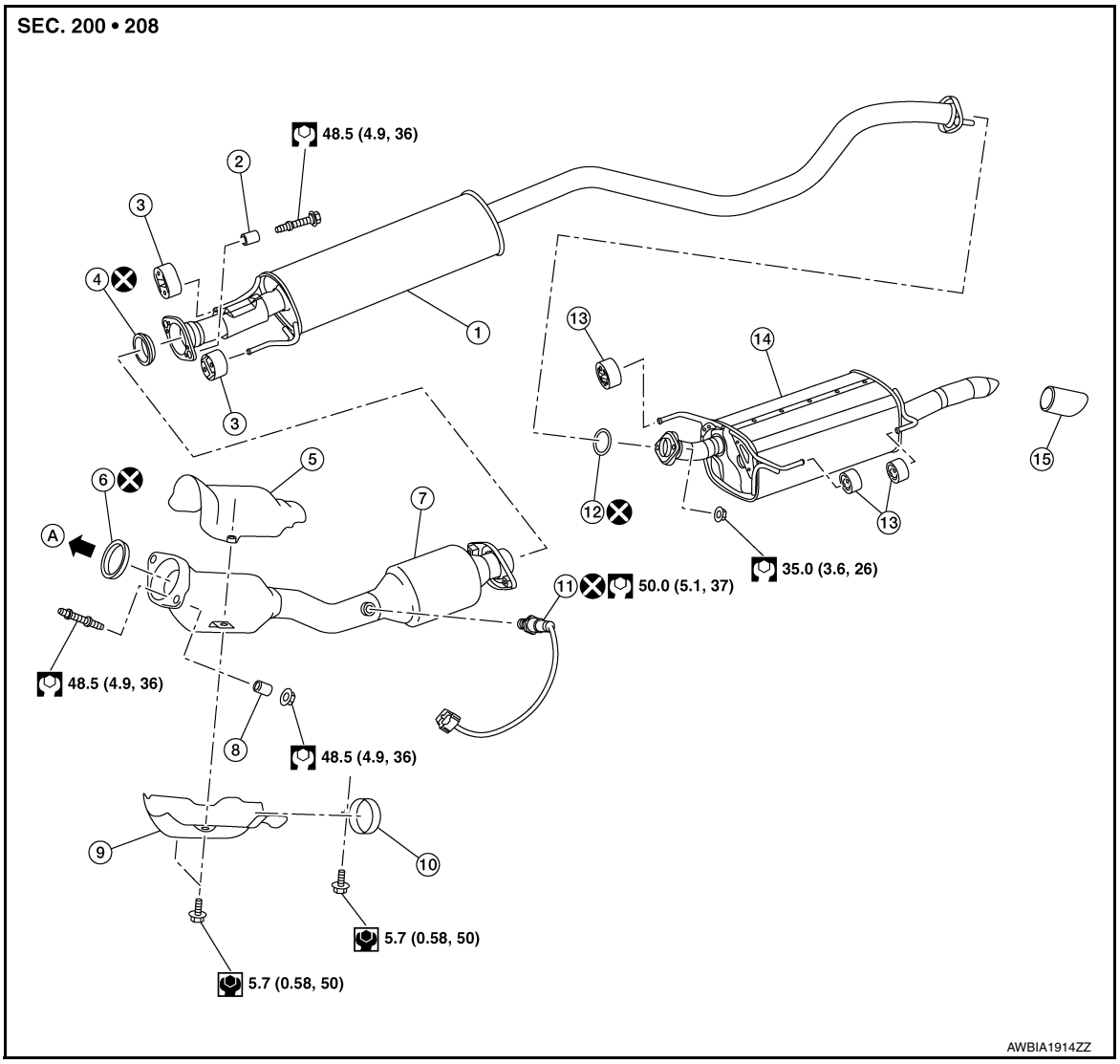
CAUTION:

Do not remove the heated oxygen sensor 2 from the front exhaust tube unless necessary for replacement of the heated oxygen sensor 2. If the heated oxygen sensor 2 is removed from the front exhaust tube, it must be replaced with a new one.

NOTE:

Heated oxygen sensor 2 replacement or removal from the front exhaust tube is not necessary when removing or repositioning the front exhaust tube. Disconnect the harness connector from the heated oxygen sensor 2 and remove or reposition the front exhaust tube and the heated oxygen sensor 2 as an assembly.

EXCEPT FOR CALIFORNIA



1.	Sub muffler	2.	Spring	3.	Mounting rubber
4.	Seal bearing	5.	Catalyst shroud (upper)	6.	Seal bearing
7.	Exhaust front tube	8.	Spring	9.	Catalyst shroud (lower)
10.	Clamp	11.	Heated oxygen sensor 2	12.	Ring gasket
13.	Mounting rubber	14.	Main muffler	15.	Exhaust finisher (if equipped)
A.	To exhaust manifold				

CAUTION:

Do not remove the heated oxygen sensor 2 from the front exhaust tube unless necessary for replacement of the heated oxygen sensor 2. If the heated oxygen sensor 2 is removed from the front exhaust tube, it must be replaced with a new one.

NOTE:

Heated oxygen sensor 2 replacement or removal from the front exhaust tube is not necessary when removing or repositioning the front exhaust tube. Disconnect the harness connector from the heated oxygen sensor 2 and remove or reposition the front exhaust tube and the heated oxygen sensor 2 as an assembly.

Removal and Installation

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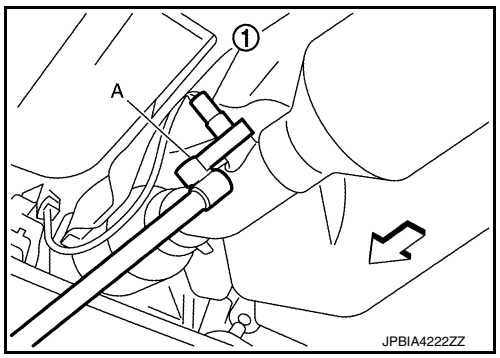
REMOVAL

- Disconnect each joint and mounting rubber.

- Remove heated oxygen sensor 2 (1) using Tool (A) (if necessary).



⇦ : Front

Tool number (A) : KV10114400 (J-38365)

CAUTION:
- **Discard any heated oxygen 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.**
- **Before installing new heated oxygen sensor, clean exhaust system threads using oxygen sensor thread cleaner and approved anti-seize lubricant.**

Oxygen sensor thread cleaner : — (J-43897-12)
Oxygen sensor thread cleaner : — (J-43897-18)

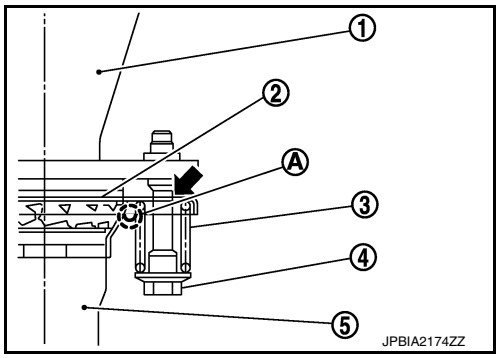
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:
- **Do not reuse seal bearings.**
- **Do not reuse ring gasket.**
- **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 oxygen sensor thread cleaner and apply anti-seize lubricant.**
- **Do not over tighten heated oxygen sensor 2. Doing so may cause damage to the 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 gas fume leaks.**
- **When installing each mounting rubber, use silicon oil to avoid twisting.**
- **Temporarily tighten nuts and bolts. Check each part for unusual interference and mounting rubber interference, and then tighten them to the specified torque.**
- **When installing each mounting rubber, avoid twisting or unusual extension in up/down, front/rear and right/left directions.**

Exhaust Manifold to Exhaust Front Tube (for california)

1. Securely insert seal bearing (2) into exhaust manifold (1) in the direction shown.



(3) : Spring
(4) : Nut
(5) : Stud bolt
(6) : Exhaust front tube

CAUTION:
Be careful not to damage seal bearing surface when installing.

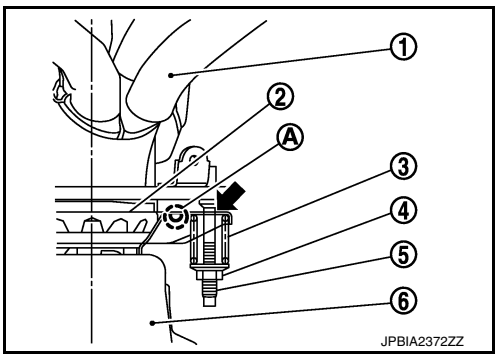
2. Install spring and tighten nut.

CAUTION:
- **Fasten stud bolts to the flange of exhaust manifold side to the specified torque before installing nuts.**
- **Ensure springs are seated correctly on the flange and not sitting on protrusion (A).**
- **Be careful that stud bolt does not interfere with mounting hole of exhaust front tube (⬅).**

3. After installing, check that stud bolt does not interfere with mounting hole of exhaust front tube.

Exhaust Manifold to Exhaust Front Tube (except california)

1. Securely insert seal bearing (2) into exhaust manifold (1) in the direction shown.



(3) : Spring
(4) : Nut
(5) : Stud bolt
(6) : Exhaust front tube

CAUTION:
Be careful not to damage seal bearing surface when installing.

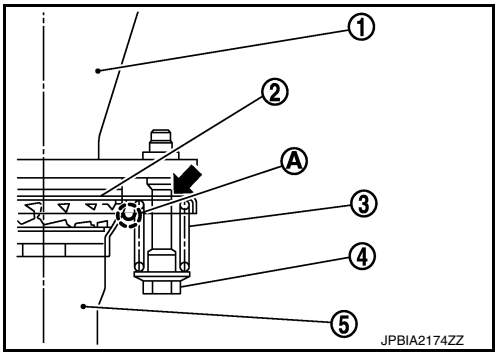
2. Install spring and tighten nut.

CAUTION:
- **Fasten stud bolts to the flange of exhaust manifold side to the specified torque before installing nuts.**
- **Ensure springs are seated correctly on the flange and not sitting on protrusion (A).**
- **Be careful that stud bolt does not interfere with mounting hole of exhaust front tube (⬅).**

3. After installing, check that stud bolt does not interfere with mounting hole of exhaust front tube.

Exhaust Front Tube to Sub Muffler

1. Securely insert seal bearing (2) into exhaust front tube (1) in the direction shown.



(3) : Spring
(4) : Bolt
(5) : Sub muffler

CAUTION:
Be careful not to damage seal bearing surface when installing.

2. Install spring and tighten bolt.

CAUTION:
- **Ensure springs are seated correctly on the flange and not sitting on protrusion (A).**
- **Be careful that bolt does not interfere with mounting hole of sub muffler (⬅).**

3. After installing, check that bolt does not interfere with mounting hole of sub muffler.

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 fume leaks 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.