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PREPARATION

PREPARATION PFP:00002

Special Service Tool

EBS00CDR

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 (J38365) Heated oxygen sensor wrench	Loosening or tightening rear heated oxygen sensor a: 22 mm (0.87 in)

Commercial Service Tool

EBS00CDS

Tool name		Description
(J-43897-18) (J-43897-12) Oxygen sensor thread cleaner	a Mating surface shave cylinder Flutes AEM488	Reconditioning the exhaust system threads before installing a new oxygen sensor. Use with anti-seize lubricant shown in Commercial Service Tools. a: J-43897-18 18mm diameter, for Zirconia Oxygen Sensor b: J-43897-12 12mm diameter, 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.

EXHAUST SYSTEM PFP:20100

Removal and Installation

EBS00CDT

CAUTION:

- Always replace the exhaust tube gaskets with new ones when reassembling the system.
- With the engine running, check all of the exhaust tube connections for exhaust gas leaks, and the entire system for any unusual noises.
- Check to ensure that the mounting brackets and mounting insulators are installed properly and are free from undue stress. Improper installation could result in excessive noise or vibration.
- 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, replace it with a new one.
- Before installing a new oxygen sensor, clean the exhaust tube threads using Oxygen Sensor Thread Cleaner tool J-43897-18 or J-43897-12 and approved anti-seize lubricant.
- Do not over-tighten the oxygen sensor. Over-tightening may cause damage to the oxygen sensor, resulting in the MIL coming on.

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KA24DE Models 13 – 16 (1.3 – 1.6, 9 – 12) – 13 – 16 (1.3 – 1.6, 13 – 16 (1.3 – 1.6, 9 – 12) · 9 – 12) 45 – 50 (4.6 – 5, 33 - 37) **43 – 55** (4.4 – 5.6, 32 - 41) 13 - 1 6 (1.3 - 1.6, 9 - 12) **X**(2) 43 – 55 (4.4 – 5.6, 28 13 – 16 (1.3 – 1.6, 32 - 41) 13 – 16 9 – 12) $(1.3 - 1.6, \frac{1}{2})$ 9 – 12) 43 - 55 ① (4.4 - 5.6,40 - 60 (4.1 - 6.1, 32 - 41) 30 - 44): N·m (kg-m, in-lb) : N·m (kg-m, ft-lb) ②❷ 43 -- 50 : Always replace after every disassembly. (4.4 - 5.0, 32 - 37)WBIA0226E

3.

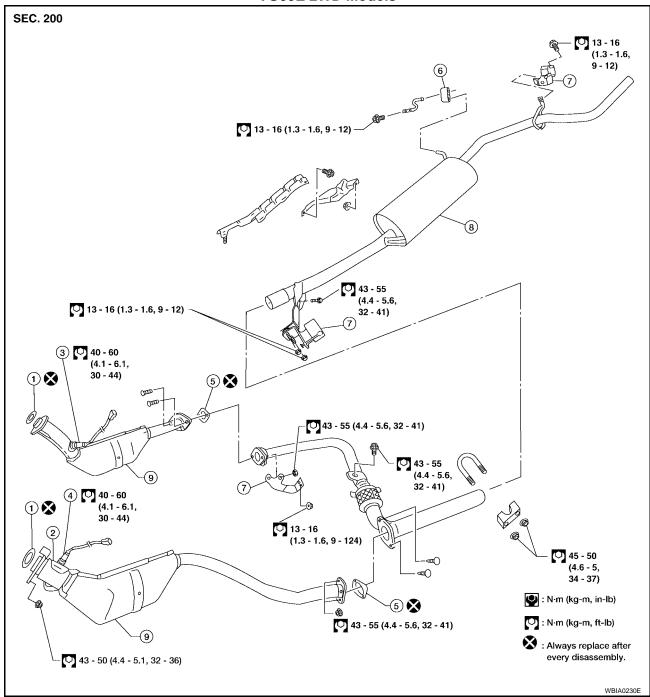
Heated oxygen sensor 2 (rear)

2.

Gasket

Three way convertor (under floor)

VG33E 2WD Models



- 1. Gasket
- 4. Heated oxygen sensor 2 (bank 2)
- 7. Mounting bracket
- 2. Front tube
- 5. Gasket
- 8. Center muffler

- 3. Heated oxygen sensor 2 (bank 1)
- 6. Mounting rubber
- 9. Three way convertor

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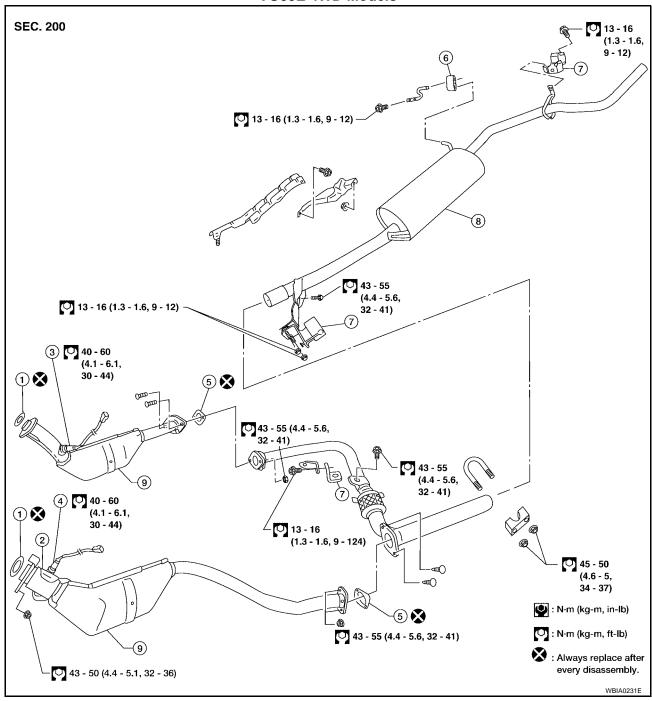
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VG33E 4WD Models



- 1. Gasket
- 4. Heated oxygen sensor 2 (bank 2)
- 7. Mounting bracket
- 2. Front tube
- 5. Gasket
- 8. Center muffler

- 3. Heated oxygen sensor 2 (bank 1)
- 6. Mounting rubber
- 9. Three way convertor

VG33ER Models SEC. 200 13 -- 16 (1.3 - 1.6,9 – 124) 13 - 16 (1.3 - 1.6, 9 - 12) -13 – 16 (1.3 - 1.6)9 -- 124) 45 – 50 (4.6 - 5, 34 - 37)43 - 55 (4.4 - 5.6, 32 - 41) 13 – 16 (1.3 – 1.6, 9 – 12) 3 🔽 40 – 60 (4.1 – 6.1, 30 - 44) 5 ①**※** 43 – 55 (4.4 - 5.6,32 -- 41) 40 - 60 1 (4.1 - 6.1, 30 - 44) **(2**) \in ФЩО : N·m (kg-m, in-lb) **⑤** 43 - 55 (4.4 - 5.6, 32 - 41) : N·m (kg-m, ft-lb) : Always replace after every disassembly. 43 - 50 (4.4 - 5.1, 32 - 36)

1. Gasket

4. Heated oxygen sensor 2 (bank 2)

7. Mounting bracket

2. Front tube

5. Gasket

8 Center muffler

3. Heated oxygen sensor 2 (bank 1)

6. Mounting rubber

9. Three way convertor

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