

SECTION **EX** EXHAUST SYSTEM

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# PREPARATION

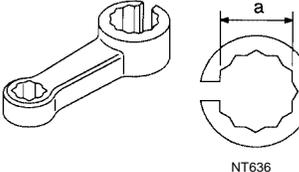
## PREPARATION

PFP:00002

### Special Service Tool

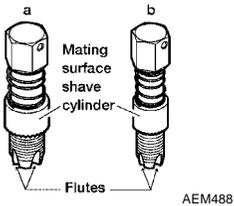
EBS00CDR

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  <b>a: 22 mm (0.87 in)</b>

### Commercial Service Tool

EBS00CDS

Tool name	Description
(J-43897-18) (J-43897-12) Oxygen sensor thread cleaner  	Reconditioning the exhaust system threads before installing a new oxygen sensor. Use with anti-seize lubricant shown in Commercial Service Tools.  <b>a: J-43897-18 18mm diameter, for Zirconia Oxygen Sensor</b> <b>b: J-43897-12 12mm diameter, for Titania Oxygen Sensor</b>
Anti-seize lubricant Permatex™ 133AR or equivalent meeting MIL specification MIL-A-907  	Lubricating oxygen sensor thread cleaning tool when reconditioning exhaust system threads.

# EXHAUST SYSTEM

## EXHAUST SYSTEM

PFP:20100

### Removal and Installation

EBS00CDT

A

#### 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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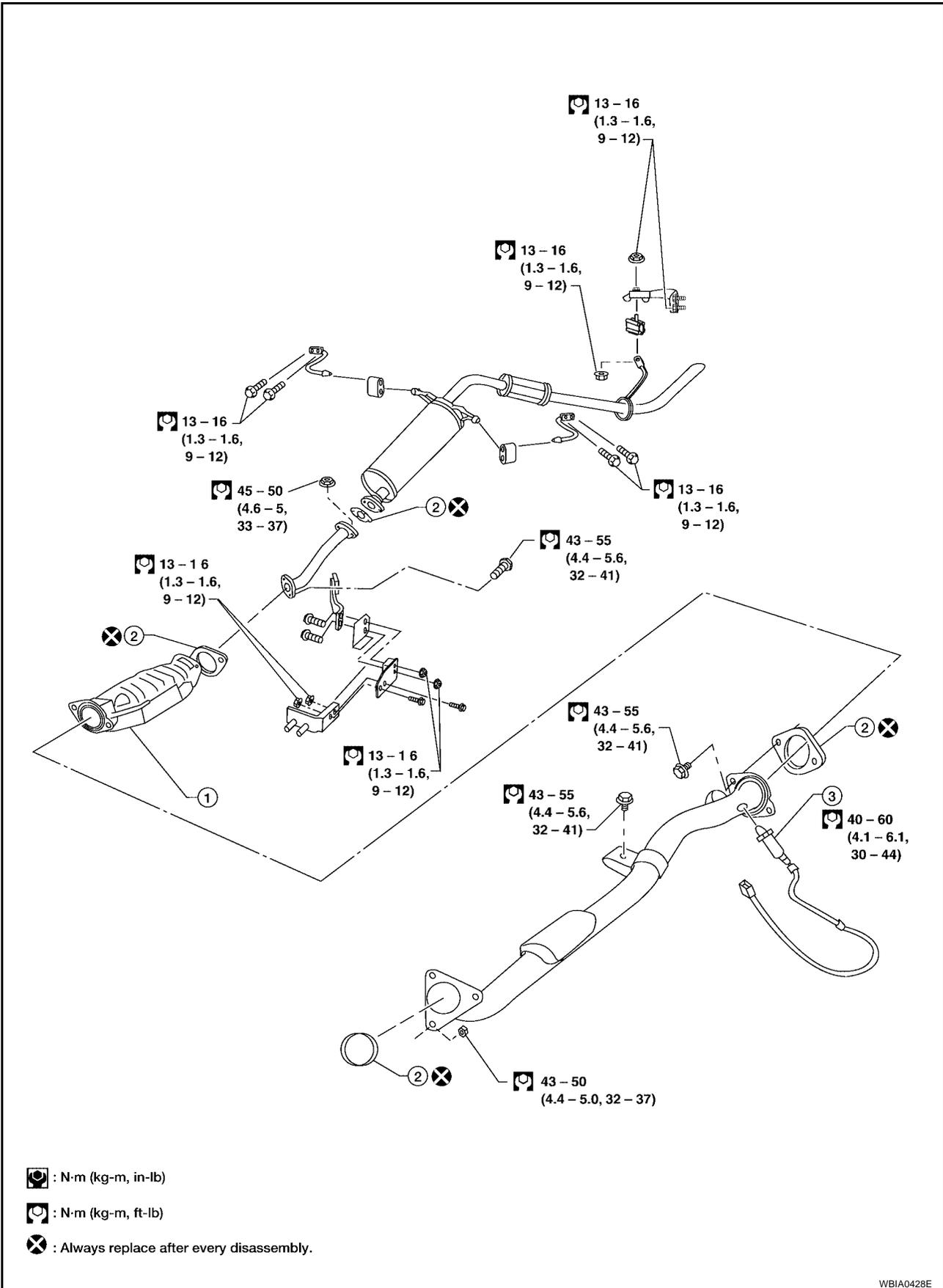
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# EXHAUST SYSTEM

## KA24DE Models



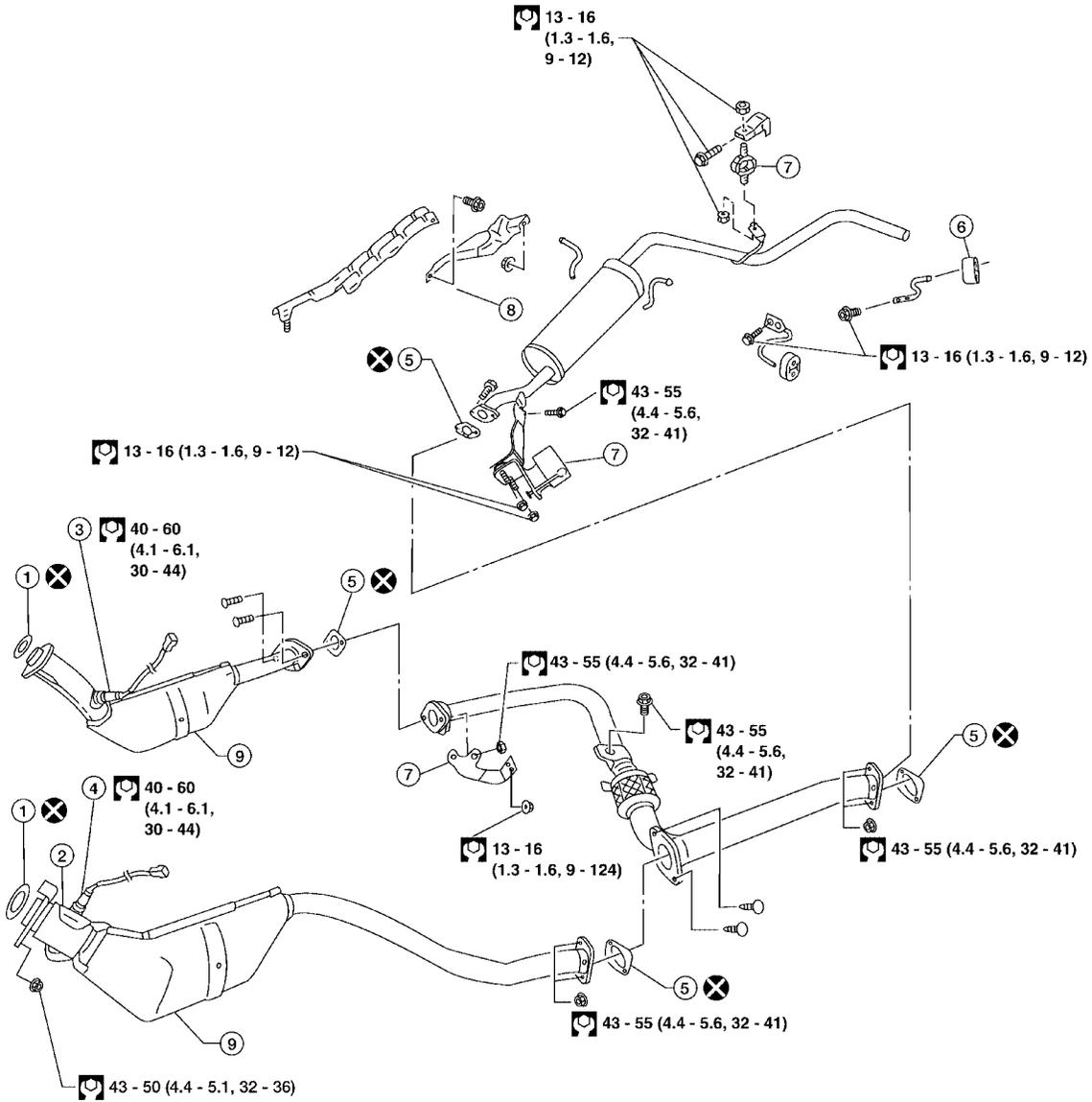
WBIA0428E

1. Three way convertor (under floor)    2. Gasket    3. Heated oxygen sensor 2 (rear)

# EXHAUST SYSTEM

## VG33E 2WD Models

SEC. 200



: N-m (kg-m, in-lb)

: N-m (kg-m, ft-lb)

: Always replace after every disassembly.

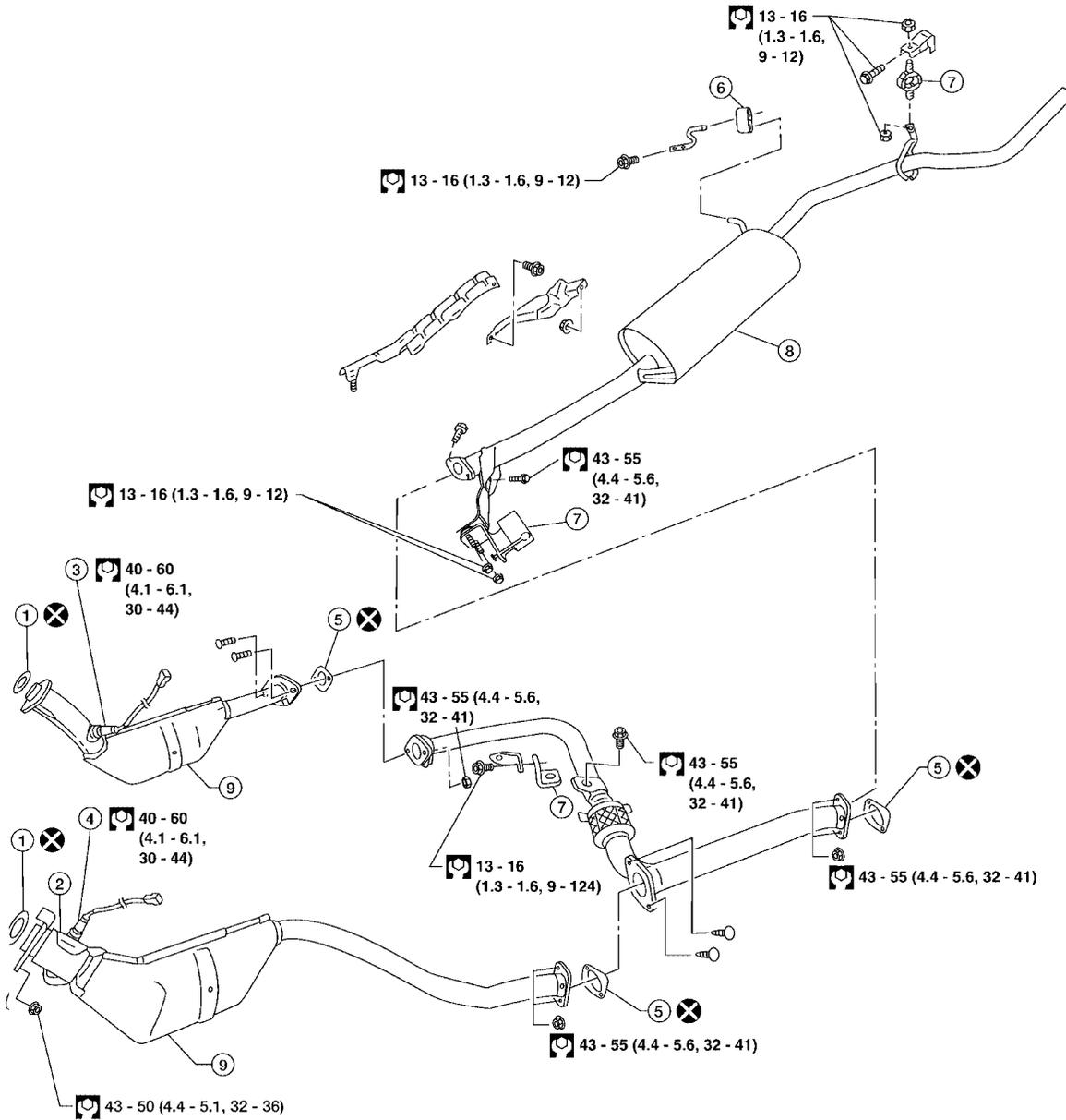
- |                                    |                   |                                    |
|------------------------------------|-------------------|------------------------------------|
| 1. Gasket                          | 2. Front tube     | 3. Heated oxygen sensor 2 (bank 1) |
| 4. Heated oxygen sensor 2 (bank 2) | 5. Gasket         | 6. Mounting rubber                 |
| 7. Mounting bracket                | 8. Center muffler | 9. Three way convertor             |

WBIA0429E

# EXHAUST SYSTEM

## VG33E 4WD Models

SEC. 200



-  : N-m (kg-m, in-lb)
-  : N-m (kg-m, ft-lb)
-  : Always replace after every disassembly.

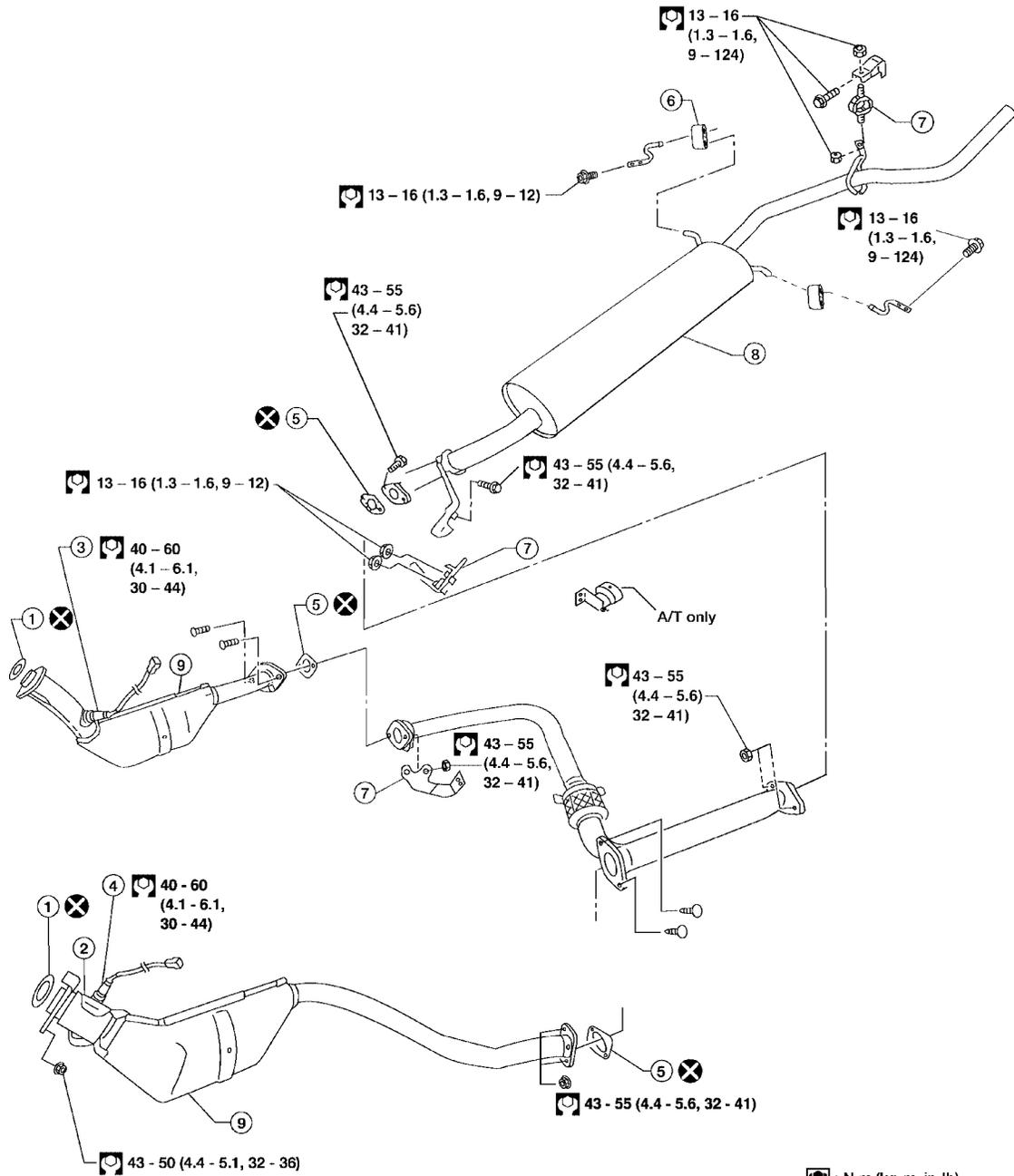
WBIA0430E

- |                                    |                   |                                    |
|------------------------------------|-------------------|------------------------------------|
| 1. Gasket                          | 2. Front tube     | 3. Heated oxygen sensor 2 (bank 1) |
| 4. Heated oxygen sensor 2 (bank 2) | 5. Gasket         | 6. Mounting rubber                 |
| 7. Mounting bracket                | 8. Center muffler | 9. Three way convertor             |

# EXHAUST SYSTEM

## VG33ER Models

SEC. 200



WBIA0431E

- |                                    |                   |                                    |
|------------------------------------|-------------------|------------------------------------|
| 1. Gasket                          | 2. Front tube     | 3. Heated oxygen sensor 2 (bank 1) |
| 4. Heated oxygen sensor 2 (bank 2) | 5. Gasket         | 6. Mounting rubber                 |
| 7. Mounting bracket                | 8. Center muffler | 9. Three way convertor             |

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# EXHAUST SYSTEM

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