

SECTION **EX** EXHAUST SYSTEM

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EXHAUST SYSTEM

EXHAUST SYSTEM

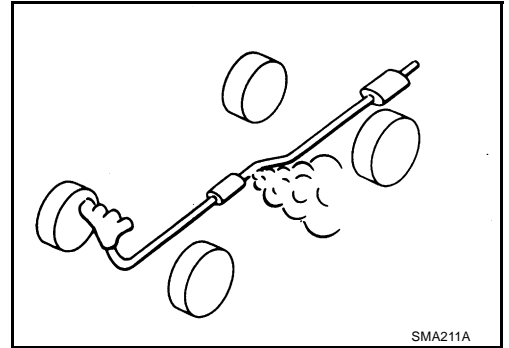
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Checking Exhaust System

BBS002HQ

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

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



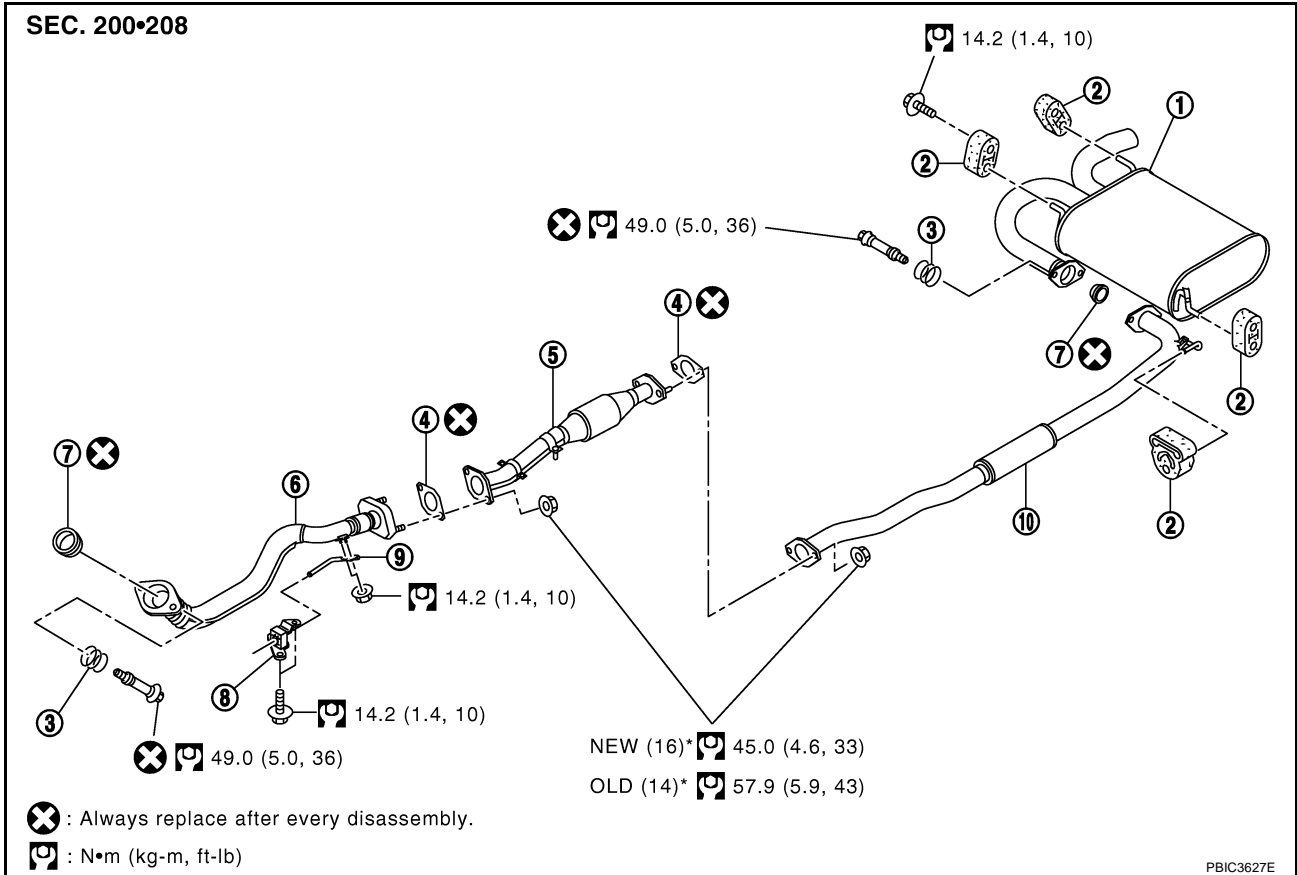
Removal and Installation

BBS002HR

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 insulator edge.

QR20DE and QR25DE

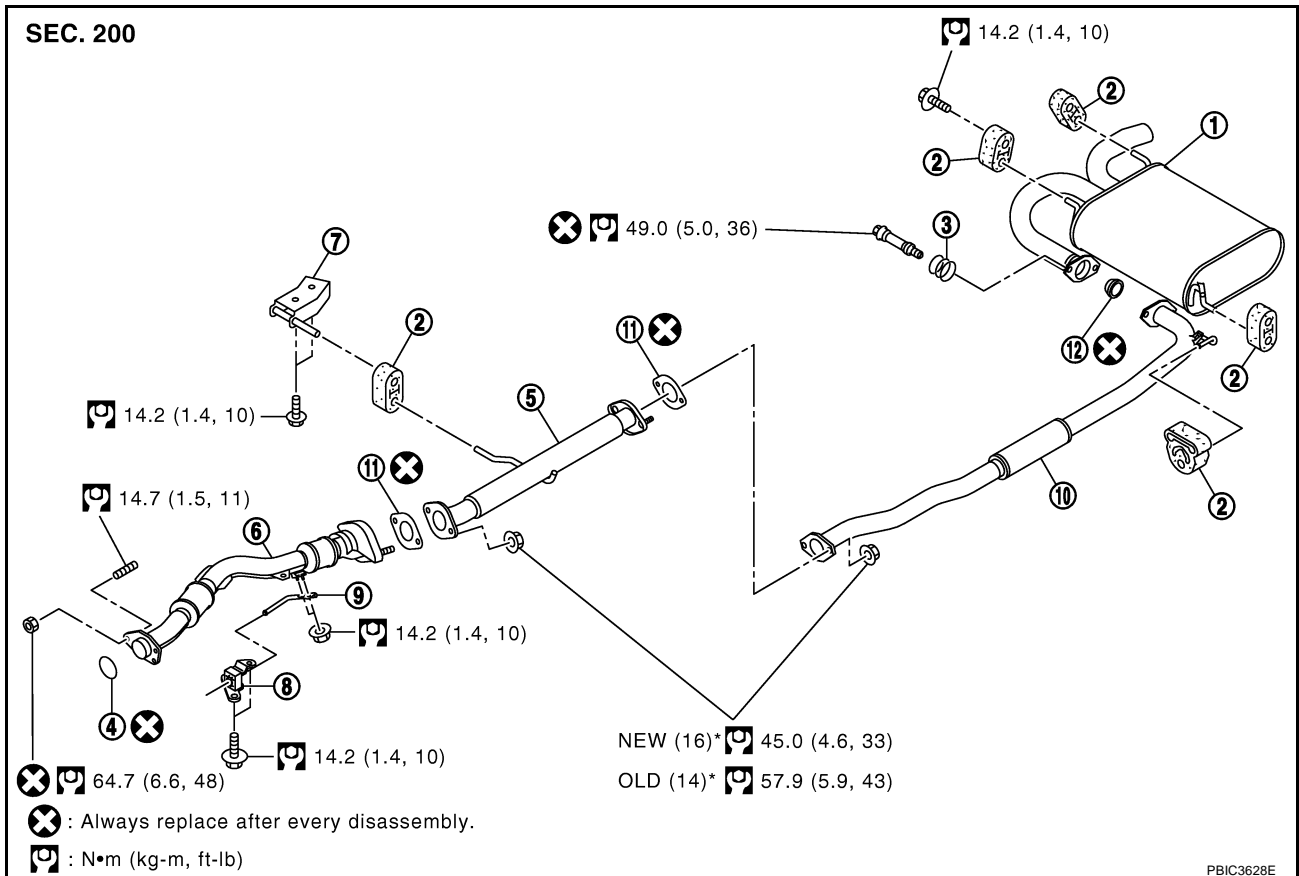


EXHAUST SYSTEM

*: In regard to the notation of torque in the figure, "NEW" shows an ISO standard, "OLD" shows a conventional standard, and the measurements of hexagonal width across flats are in parentheses.

- | | | |
|-------------------------|----------------------------|-----------------------|
| 1. Main muffler | 2. Mounting rubber | 3. Spring |
| 4. Gasket | 5. Three way catalyst | 6. Exhaust front tube |
| 7. Seal bearing | 8. Mounting rubber bracket | 9. Mounting bracket |
| 10. Exhaust center tube | | |

YD22DDTi



*: In regard to the notation of torque in the figure, "NEW" shows an ISO standard, "OLD" shows a conventional standard, and the measurements of hexagonal width across flats are in parentheses.

- | | | |
|-------------------------|----------------------------|-----------------------|
| 1. Main muffler | 2. Mounting rubber | 3. Spring |
| 4. Ring gasket | 5. Exhaust tube | 6. Exhaust front tube |
| 7. Mounting bracket | 8. Mounting rubber bracket | 9. Mounting bracket |
| 10. Exhaust center tube | 11. Gasket | 12. Seal bearing |

REMOVAL

Separate each connection as necessity.

INSTALLATION

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

CAUTION:

- Always replace exhaust gaskets and seal bearings with new ones when reassembling.
- If insulator is badly deformed, repair or replace it. If deposits such as mud pile up on insulator, remove them.
- When installing insulator avoid large gaps or interference between insulator and each exhaust pipe.
- Remove deposits from the sealing surface of each connection. Connect them securely to avoid gas leakage.

EXHAUST SYSTEM

- Temporarily tighten mounting nuts on the exhaust manifold side and mounting bolts on the vehicle side. 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.
- Install seal bearings at exhaust front tube and main muffler as follows.

CAUTION:

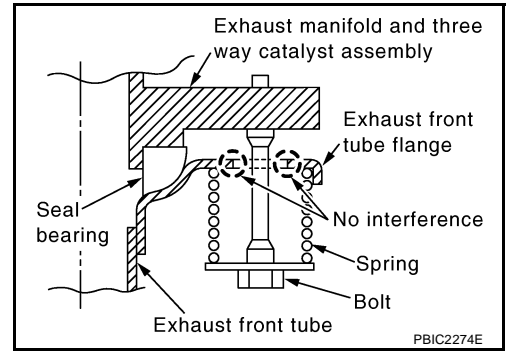
Do not mix the bolt and spring for seal bearing as the dimension is different for each seal bearing.

Exhaust Front Tube Side (QR20DE and QR25DE)

Insert seal bearing in the direction shown in the figure.

CAUTION:

Tighten mounting bolt without causing interference with exhaust front tube flange.

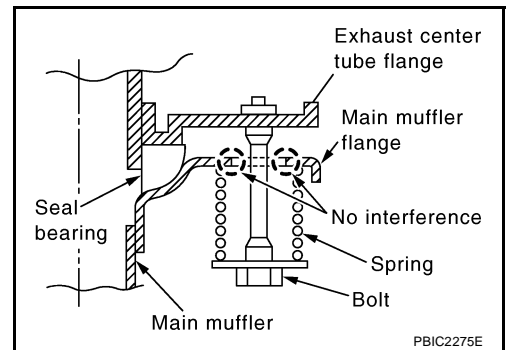


Main Muffler Side (QR20DE, QR25DE and YD22DDTi)

Insert seal bearing in the direction shown in the figure.

CAUTION:

Tighten mounting bolt without causing interference with main muffler flange.



INSPECTION AFTER INSTALLATION

- With the 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.