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EXHAUST SYSTEM

EXHAUST SYSTEM

PFP:20100

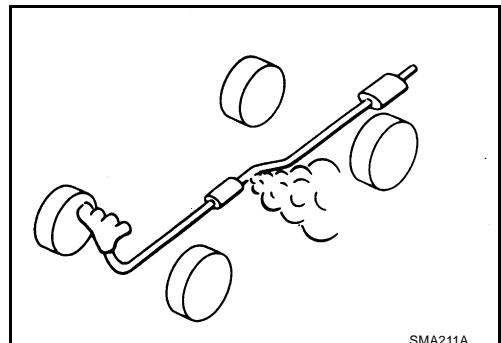
Checking Exhaust System

SMA for ISO bolts/nuts

EBS00AZ6

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

SMA for ISO bolts/nuts

FBS003DN

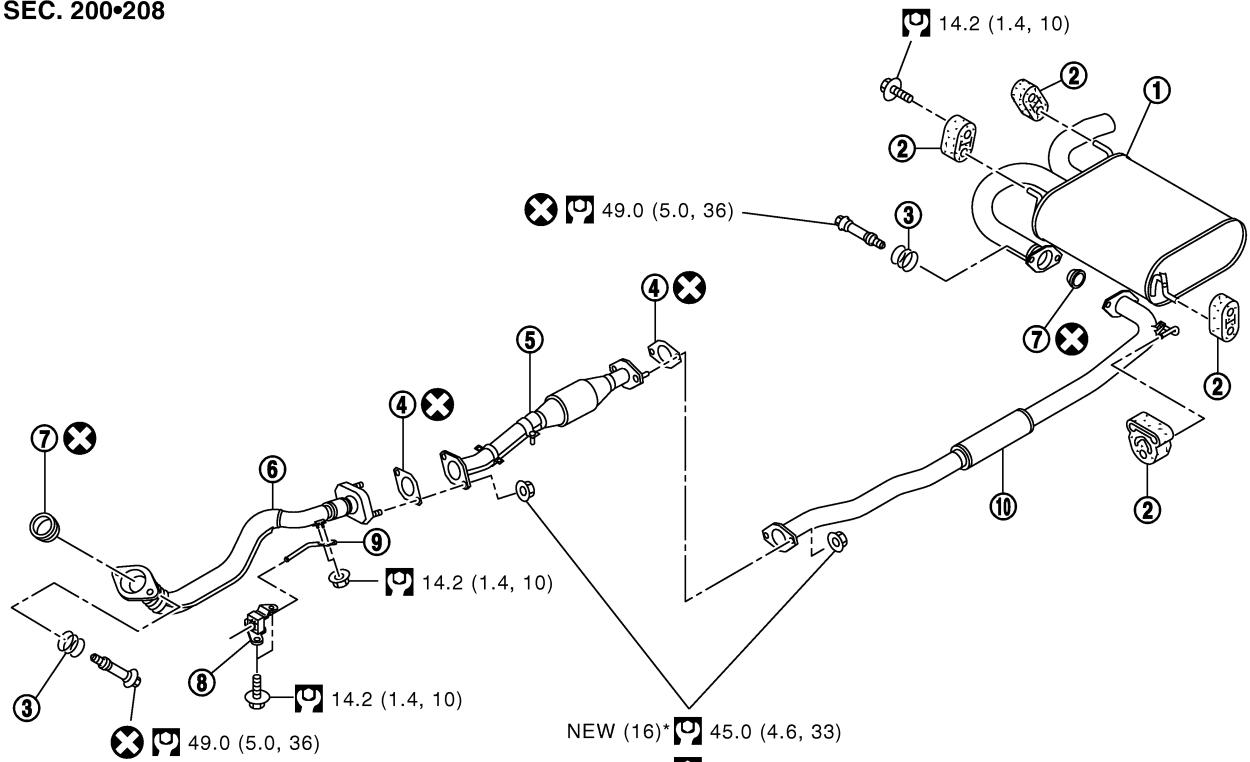
CAUTION:

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

SEC. 200•208



 : Always replace after every disassembly.

 : N•m (kg-m, ft-lb)

PBIC3627E

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		

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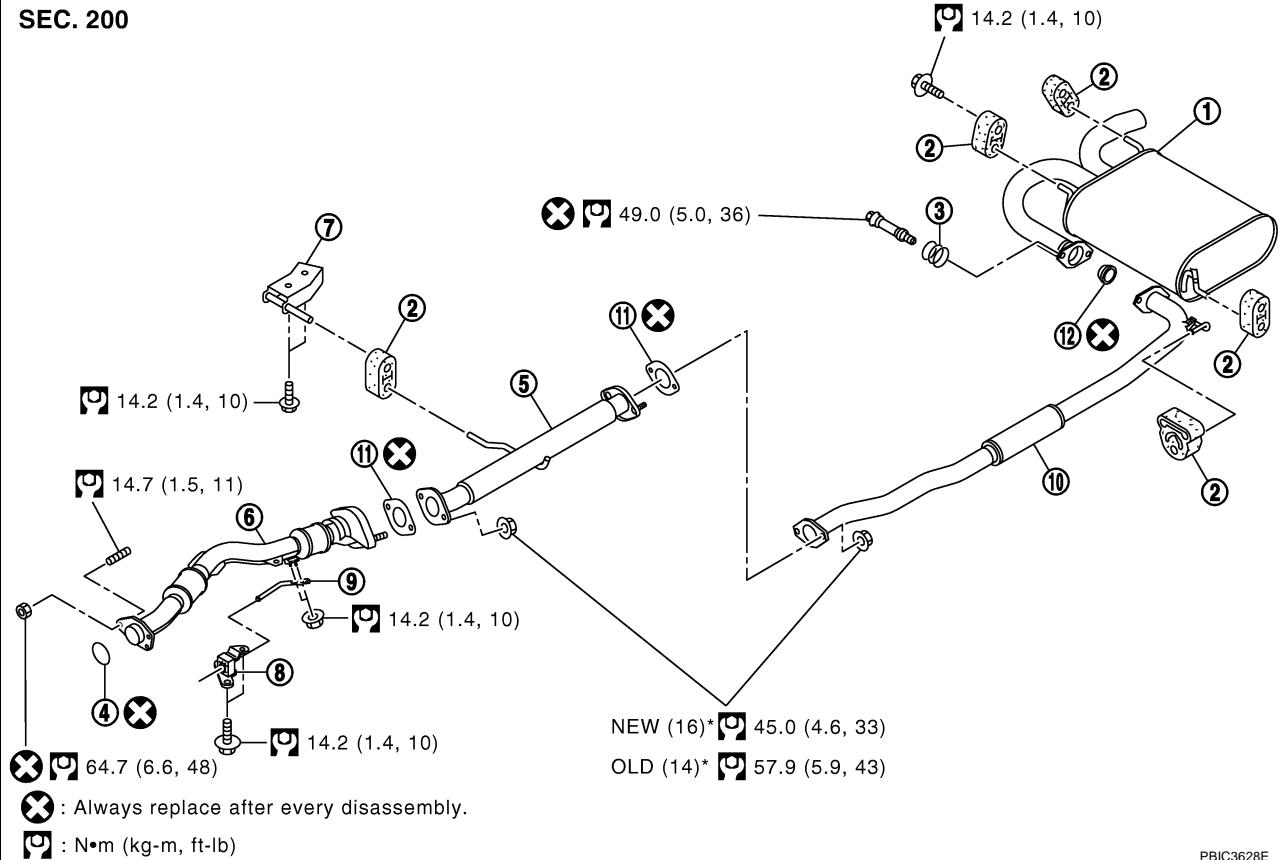
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YD22DDTi

SEC. 200



PBIC3628E

*: 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:

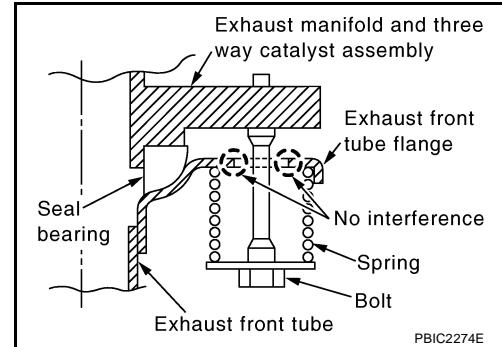
Do not mix the bolt and spring for seal bearing as the dimension is different for each seal bearing.

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.

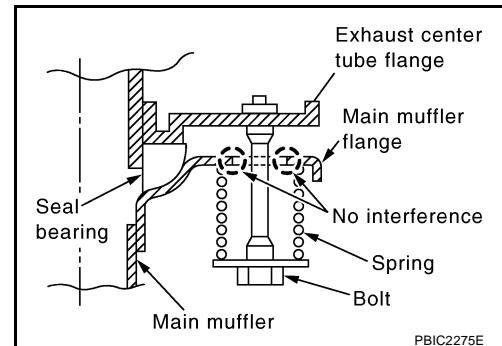


Main Muffler Side (QR20DE, QR25DE and YD22DDTi)

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.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

PFP:00030

Tightening Torque QR20DE AND QR25DE

SMA for ISO bolts/nuts

EBS00KP4

Unit: N·m (kg·m, ft·lb)

EX

Exhaust system connections		
Exhaust manifold three way catalyst assembly to exhaust front tube	Conventional bolt	49.0 (5.0, 36)
Exhaust front tube to three way catalyst	Conventional nut	57.9 (5.9, 43)
	ISO nut	45.0 (4.6, 33)
Three way catalyst to exhaust center tube	Conventional nut	57.9 (5.9, 43)
	ISO nut	45.0 (4.6, 33)
Exhaust center tube to main muffler	Conventional bolt	49.0 (5.0, 36)
Mounting bolts and nuts		14.2 (1.4, 10)

YD22DDTI

Unit: N·m (kg·m, ft·lb)

Exhaust system connections		
Catalyst rear diffuser to exhaust front tube		64.7 (6.6, 48)
Exhaust front tube to exhaust tube	Conventional nut	57.9 (5.9, 43)
	ISO nut	45.0 (4.6, 33)
Exhaust tube to exhaust center tube	Conventional nut	57.9 (5.9, 43)
	ISO nut	45.0 (4.6, 33)
Exhaust center tube to main muffler	Conventional bolt	49.0 (5.0, 36)
Mounting bolts and nuts		14.2 (1.4, 10)

SERVICE DATA AND SPECIFICATIONS (SDS)
