

2004 Toyota RAV4
2004 ENGINE Exhaust System - RAV4

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COMPONENTS

Fig. 1: Identifying Exhaust System Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REPLACEMENT

NOTE: Check if an old gasket still remains on the pipe. If so, remove it. Also, check if any bolts or nuts are rusted. If so, replace them.

1. REMOVE FRONT EXHAUST PIPE

- a. Remove the 2 bolts and 2 compression springs.
- b. Remove the 2 bolts and exhaust pipe.
- c. Remove the exhaust pipe's gasket and exhaust manifold's gasket.

2. REMOVE CENTER EXHAUST PIPE

- a. Remove the heated oxygen sensor (bank 1 sensor 2).
- b. Remove the 2 bolts from the exhaust pipe.
- c. Remove the exhaust pipe from the 2 rings.
- d. Remove the gasket from the exhaust pipe.

3. REMOVE TAILPIPE

Remove the tailpipe from the 3 rings.

4. INSTALL TAILPIPE

Install the tailpipe to the 3 rings.

5. INSTALL CENTER EXHAUST PIPE

- a. Install a new gasket to the exhaust pipe.

NOTE:

- Do not reuse the gasket.
- The gasket must be installed to the exhaust pipe before the pipe is installed to the tailpipe. Do not indirectly use the tailpipe to force the gasket onto the exhaust pipe.

- b. Install the exhaust pipe to the 2 rings.
- c. Install the 2 bolts to the exhaust pipe.

Torque: 49 N.m (500 kgf.cm, 36 ft.lbf)

- d. Install the heated oxygen sensor (bank 1 sensor 2).

Torque: 44 N.m (449 kgf.cm, 32 ft.lbf)

HINT:

- Before installing the heated oxygen sensor, twist the sensor wire counterclockwise 3 and 1/2 turns.

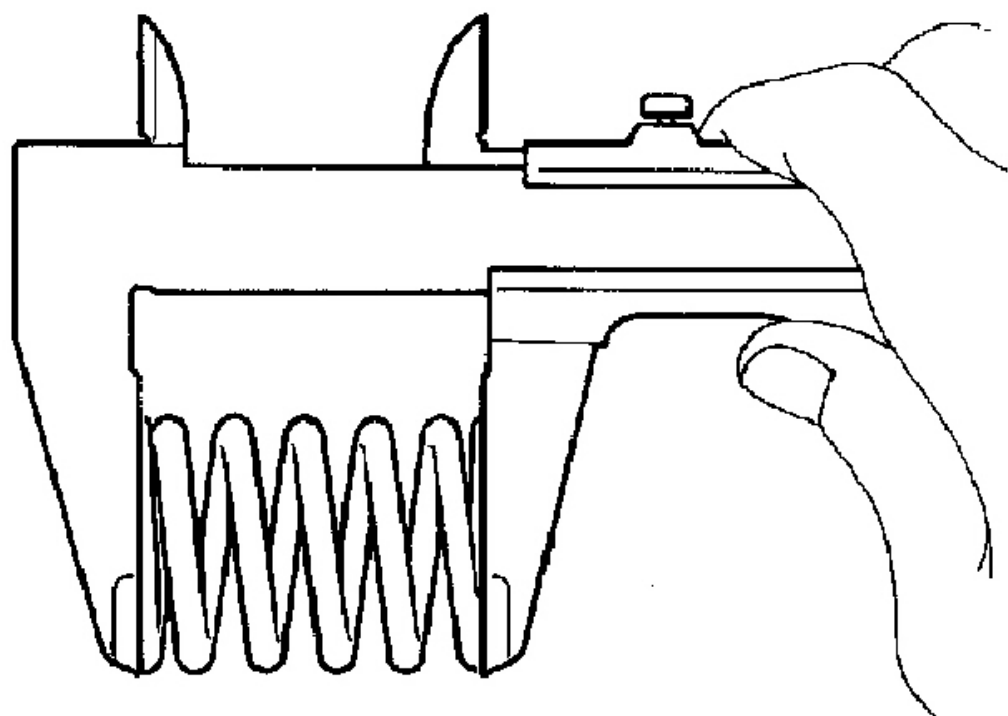
- After installing the heated oxygen sensor, check that the sensor wire is not twisted. If it is twisted, remove the heated oxygen sensor and reinstall it.

6. INSTALL FRONT EXHAUST PIPE

- a. Using a vernier caliper, measure the free length of the compression spring.

Minimum length: 40 mm (1.57 in.)

If the free length is less than the minimum, replace the compression spring.



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Fig. 2: Measuring Compression Spring Free Length
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Install a new gasket to the front exhaust pipe.

NOTE:

- Do not reuse the gasket.
- The gasket must be installed to the front exhaust pipe before

the pipe is installed to the center exhaust pipe. Do not indirectly use the center exhaust pipe to force the gasket onto the front exhaust pipe.

- c. Install a new gasket to the exhaust manifold.

NOTE:

- Using a plastic faced hammer, uniformly strike the gasket so that the gasket and exhaust manifold are properly fit.
- Be careful with the installation direction of the gasket.
- Do not reuse the gasket.
- The gasket must be installed to the exhaust manifold before the manifold is installed to the exhaust pipe. Do not indirectly use the exhaust pipe to force the gasket onto the exhaust manifold.

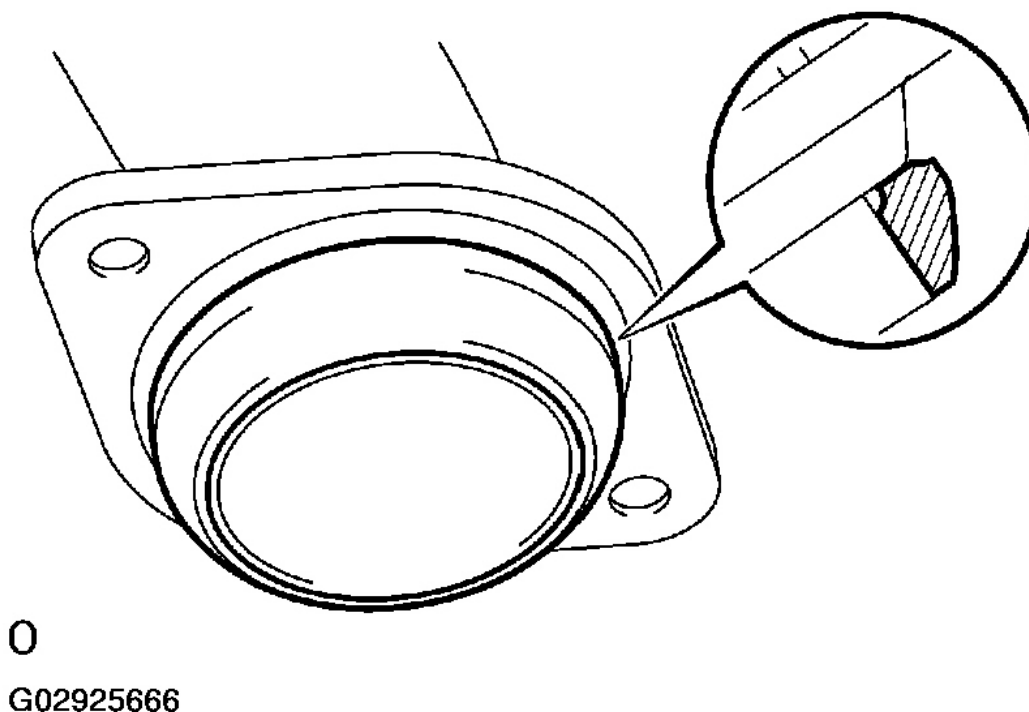


Fig. 3: Installing New Gasket To Exhaust Manifold
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Temporarily install the 2 compression springs and 2 bolts holding the exhaust manifold to the front exhaust pipe.
- e. Install the front exhaust pipe to the center exhaust pipe with the 2 bolts.

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Torque: 49 N.m (500 kgf.cm, 36 ft.lbf)

- f. Tighten the 2 compression springs and 2 bolts.

Torque: 43 N.m (439 kgf.cm, 32 ft.lbf)

7. CHECK FOR EXHAUST GAS LEAKS

If gas is leaking, tighten the areas necessary to stop the leak.

Replace damaged parts as necessary.