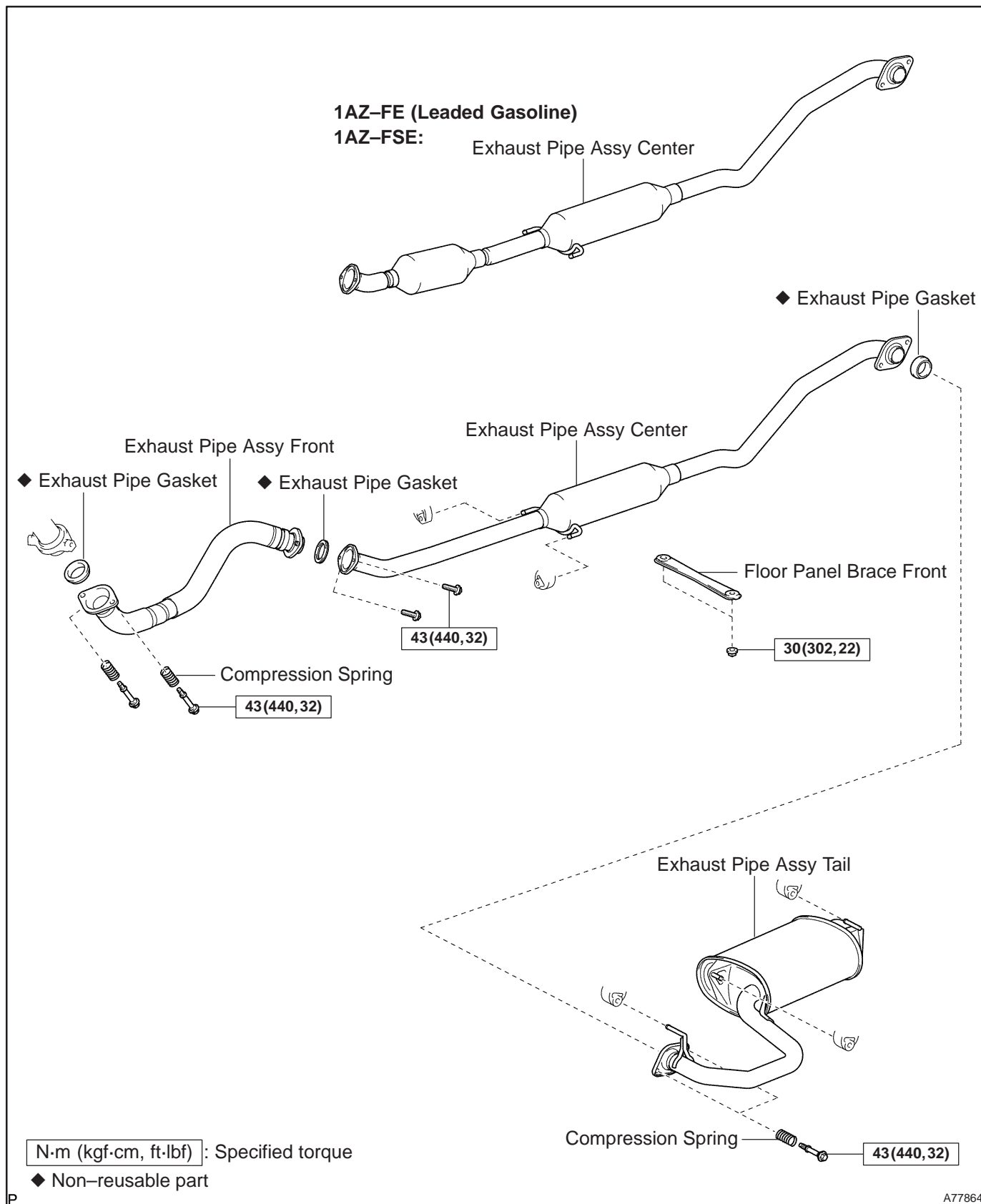


EXHAUST PIPE ASSY (1AZ-FE/1AZ-FSE)

COMPONENTS

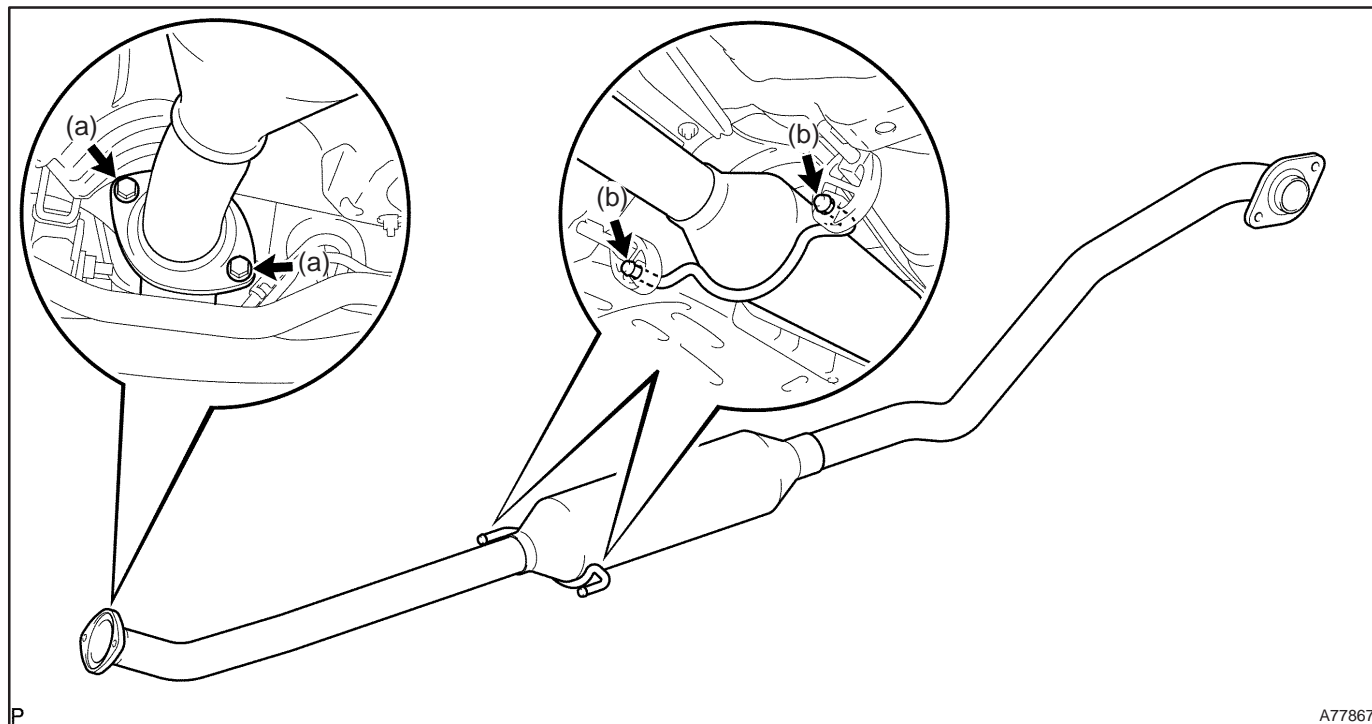
1509U-01



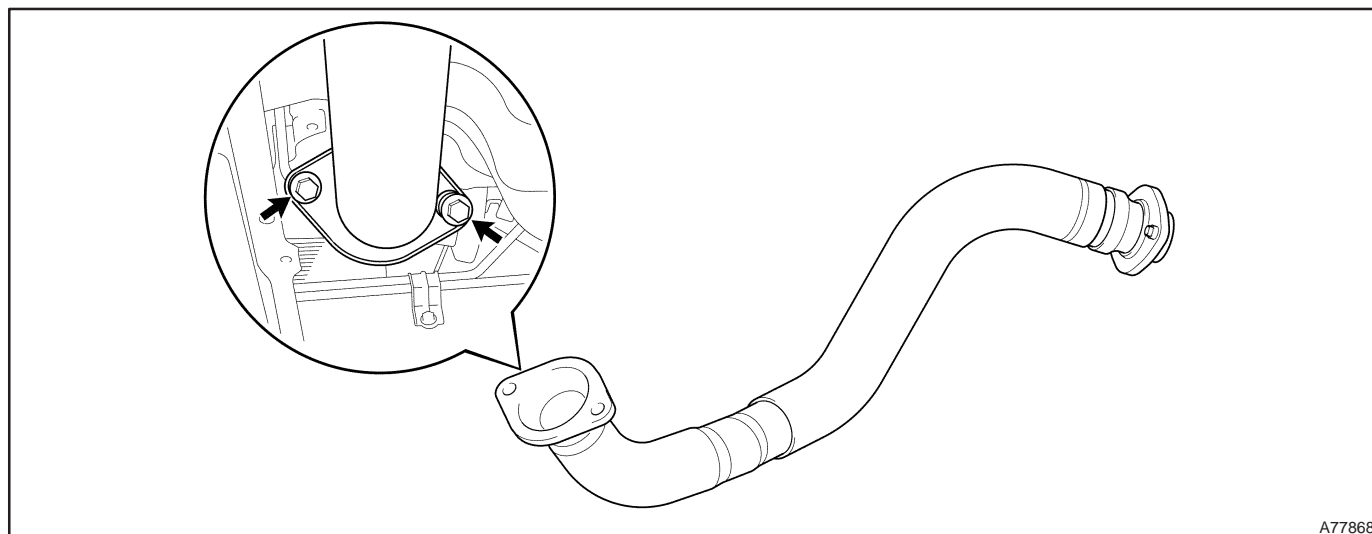
A77864

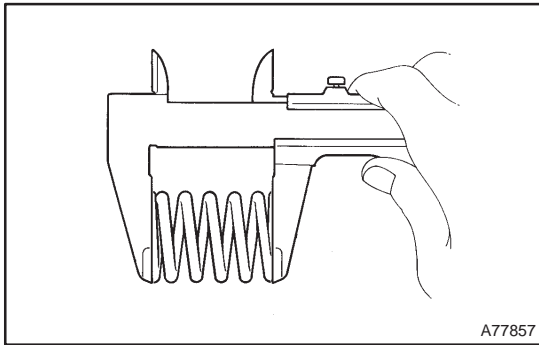
Removal & Installation and Disassembly & Reassembly

1. REMOVE FLOOR PANEL BRACE FRONT (See page 15-2)
2. REMOVE EXHAUST PIPE ASSY TAIL (See page 15-2)
3. REMOVE EXHAUST PIPE ASSY CENTER
 - (a) Remove the 2 bolts.
 - (b) Remove the exhaust pipe center and the gasket from the 2 exhaust pipe supports.



4. REMOVE EXHAUST PIPE ASSY FRONT
 - (a) Remove the 2 bolts and 2 compression springs, and then remove the exhaust pipe front.
 - (b) Remove the gasket from the exhaust manifold.

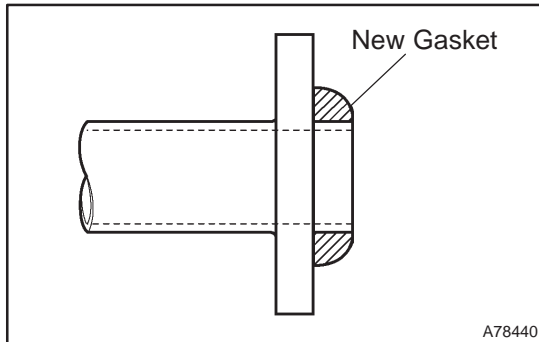


**5. INSTALL EXHAUST PIPE ASSY FRONT**

- (a) Compression spring inspection
(1) Using vernier calipers, measure the free length of the compression spring.

Minimum length: 41.5 mm (1.634 in.)

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



- (b) Install a new gasket to the exhaust manifold as shown in the illustration.
(c) Install the exhaust pipe front with the 2 compression springs and 2 bolts.

Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)

6. INSTALL EXHAUST PIPE ASSY CENTER

- (a) Install a new gasket and the exhaust pipe center to the 2 exhaust pipe supports.
(b) Tighten the 2 bolts.

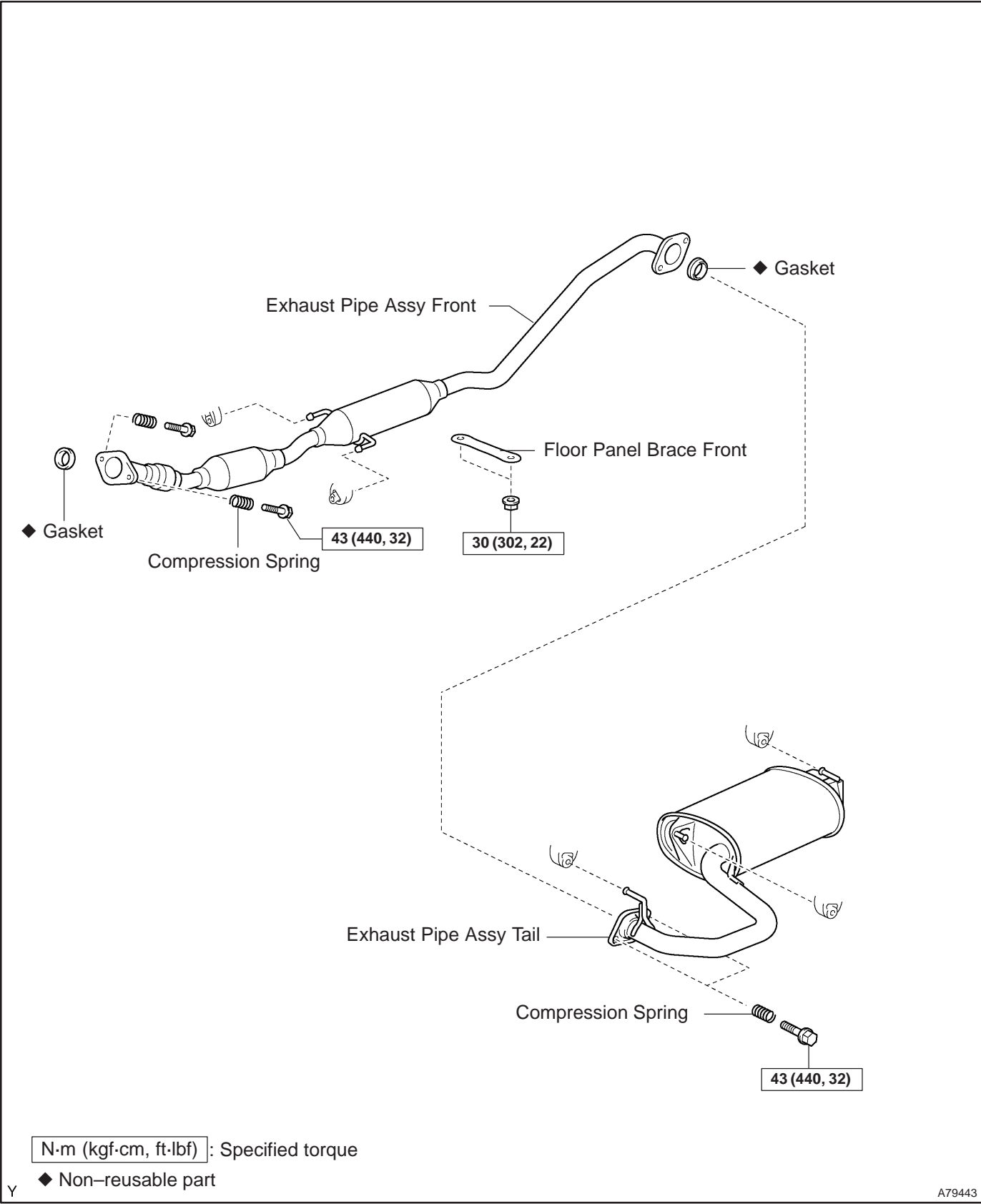
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)

7. INSTALL EXHAUST PIPE ASSY TAIL (See page 15-2)**8. CHECK FOR EXHAUST GAS LEAKS****9. INSTALL FLOOR PANEL BRACE FRONT (See page 15-2)**

EXHAUST PIPE ASSY (1CD-FTV)

COMPONENTS

1509W-01



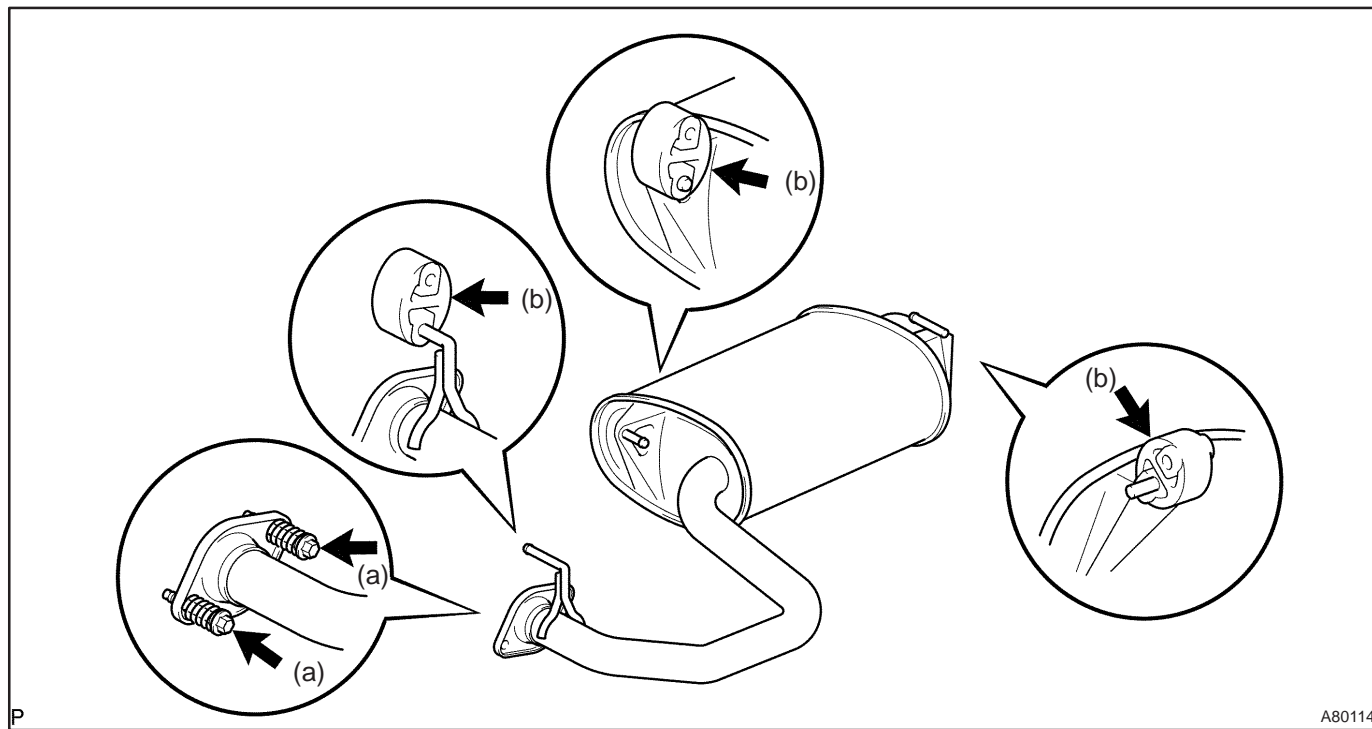
Removal & Installation and Disassembly & Reassembly

1. REMOVE FLOOR PANEL BRACE FRONT

- (a) Remove the 2 nuts and the floor panel brace front.

2. REMOVE EXHAUST PIPE ASSY TAIL

- (a) Remove the 2 bolts and 2 compression springs.
(b) Disconnect the 3 exhaust pipe supports and remove the exhaust pipe tail.
(c) Remove the gasket from the exhaust pipe tail.

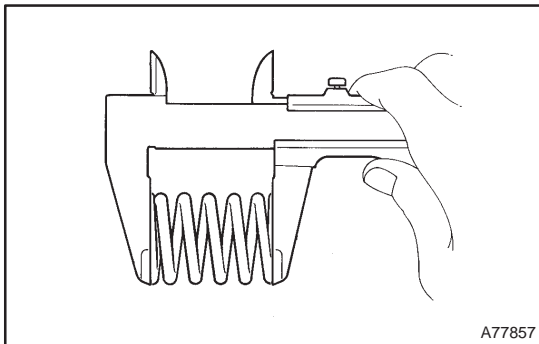
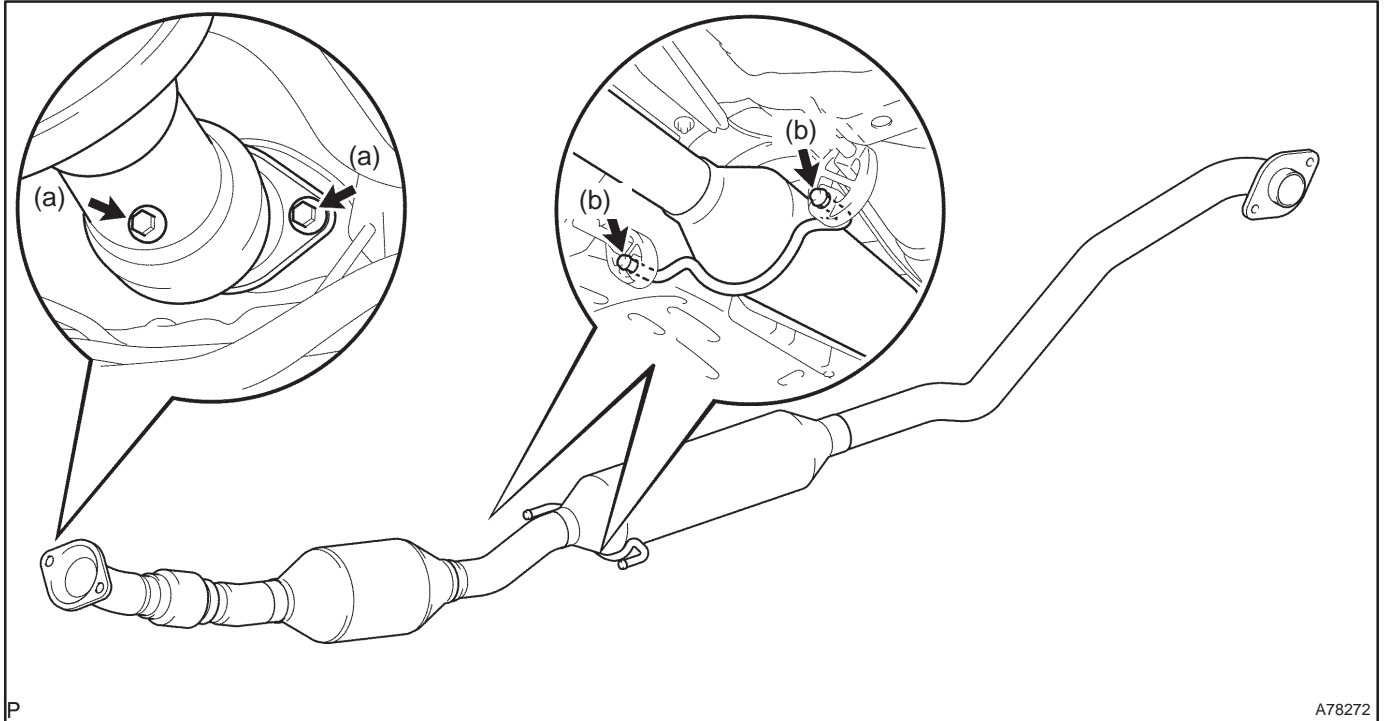


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A80114

3. REMOVE EXHAUST PIPE ASSY FRONT

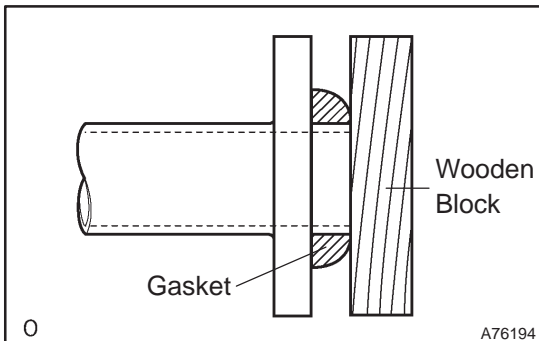
- (a) Remove the 2 bolts and 2 compression springs.
- (b) Disconnect the 2 exhaust pipe supports and remove the exhaust pipe front.
- (c) Remove the gasket from the manifold converter.

**4. INSTALL EXHAUST PIPE ASSY FRONT**

- (a) Using vernier calipers, measure the free length of the compression spring.

Minimum Length: 41.5 mm (1.634 in.)

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

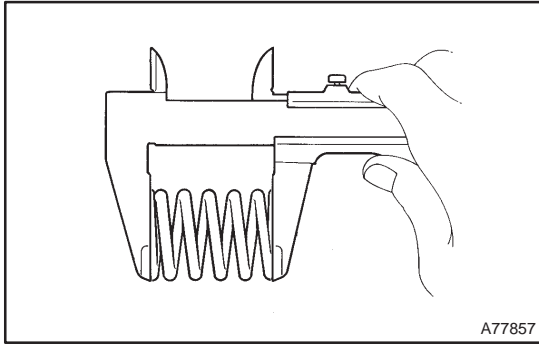


- (b) Using a plastic hammer and a wooden block, tap in a new gasket until its surface is flush with the exhaust manifold.

NOTICE:

- **Tap in the gasket in the correct direction.**
 - **Do not reuse the removed gasket.**
 - **Be sure not to push in the gasket when installing the exhaust pipe.**
- (c) Connect the 2 exhaust pipe supports and install the exhaust pipe front with the 2 compression springs and 2 bolts.

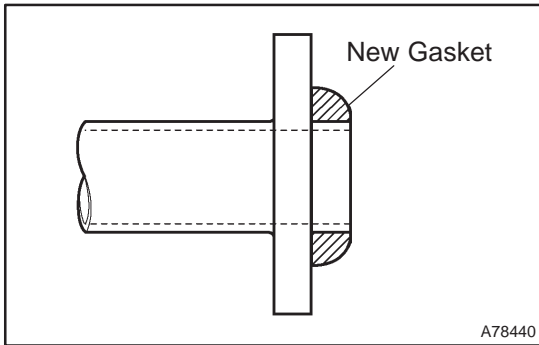
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)

**5. INSTALL EXHAUST PIPE ASSY TAIL**

- (a) Using vernier calipers, measure the free length of the compression spring.

Minimum Length: 38.5 mm (1.515 in.)

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



- (b) Install a new gasket to the pipe front converter as shown in the illustration.

- (c) Connect the 3 exhaust pipe supports and install the exhaust pipe tail with the 2 compression springs and 2 bolts.

Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)

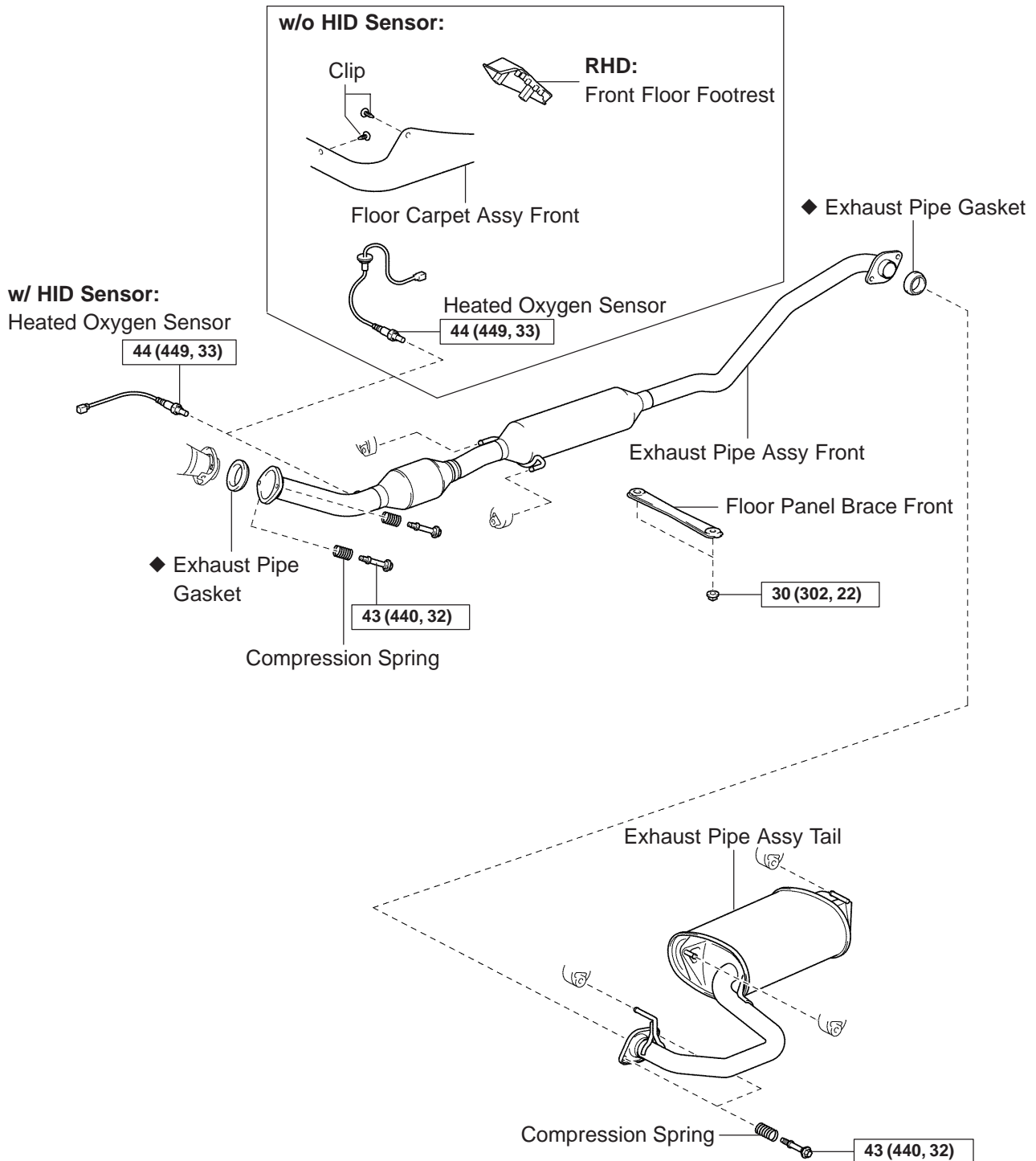
6. CHECK FOR EXHAUST GAS LEAKS**7. INSTALL FLOOR PANEL BRACE FRONT**

Torque: 30 N·m (302 kgf·cm, 22 ft·lbf)

EXHAUST PIPE ASSY (1ZZ-FE/3ZZ-FE)

COMPONENTS

1509S-01



N·m (kgf·cm, ft·lbf) : Specified torque

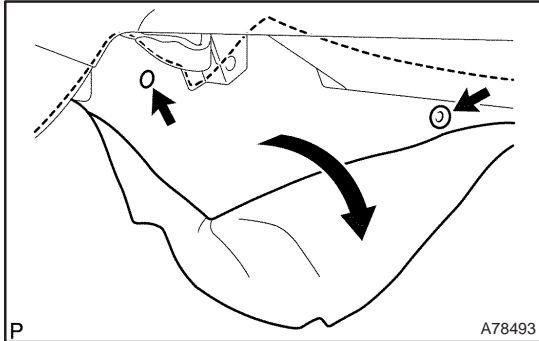
◆ Non-reusable part

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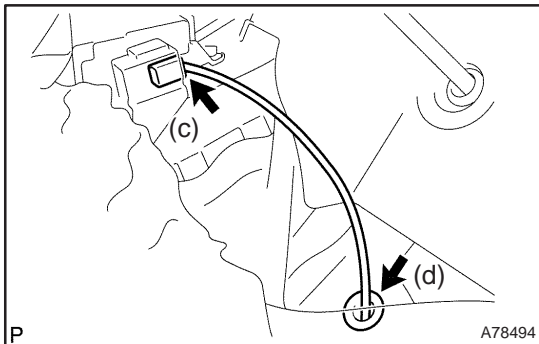
Removal & Installation and Disassembly & Reassembly

1. REMOVE FRONT FLOOR FOOTREST (W/O HID SENSOR) (See page 76-32)

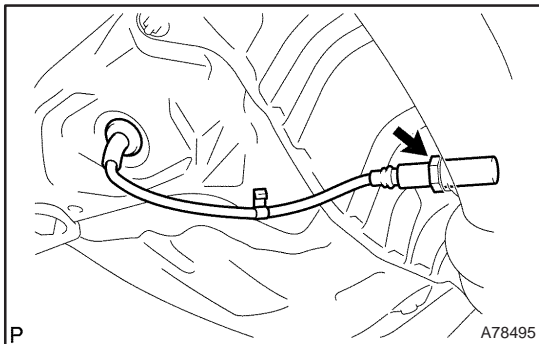


2. REMOVE HEATED OXYGEN SENSOR (W/O HID SENSOR)

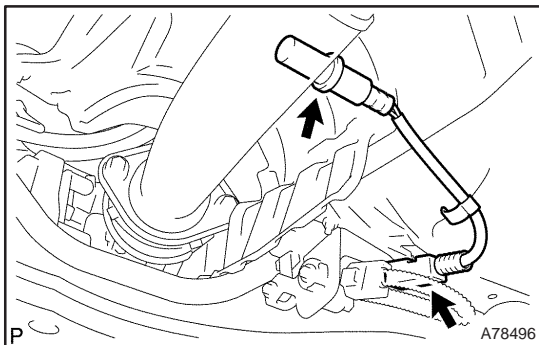
- Using a clip remover, remove the 2 clips.
- Open the floor carpet.



- Disconnect the heated oxygen sensor connector.
- Remove the grommet.

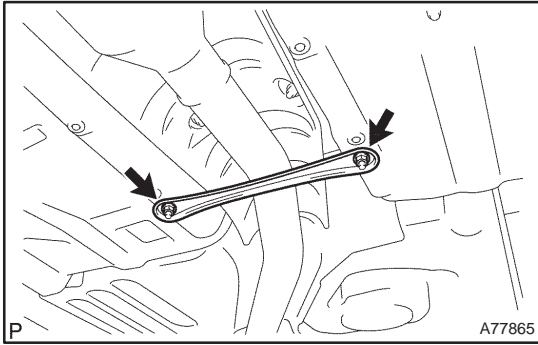


- Remove the heated oxygen sensor.



3. REMOVE HEATED OXYGEN SENSOR (W/ HID SENSOR)

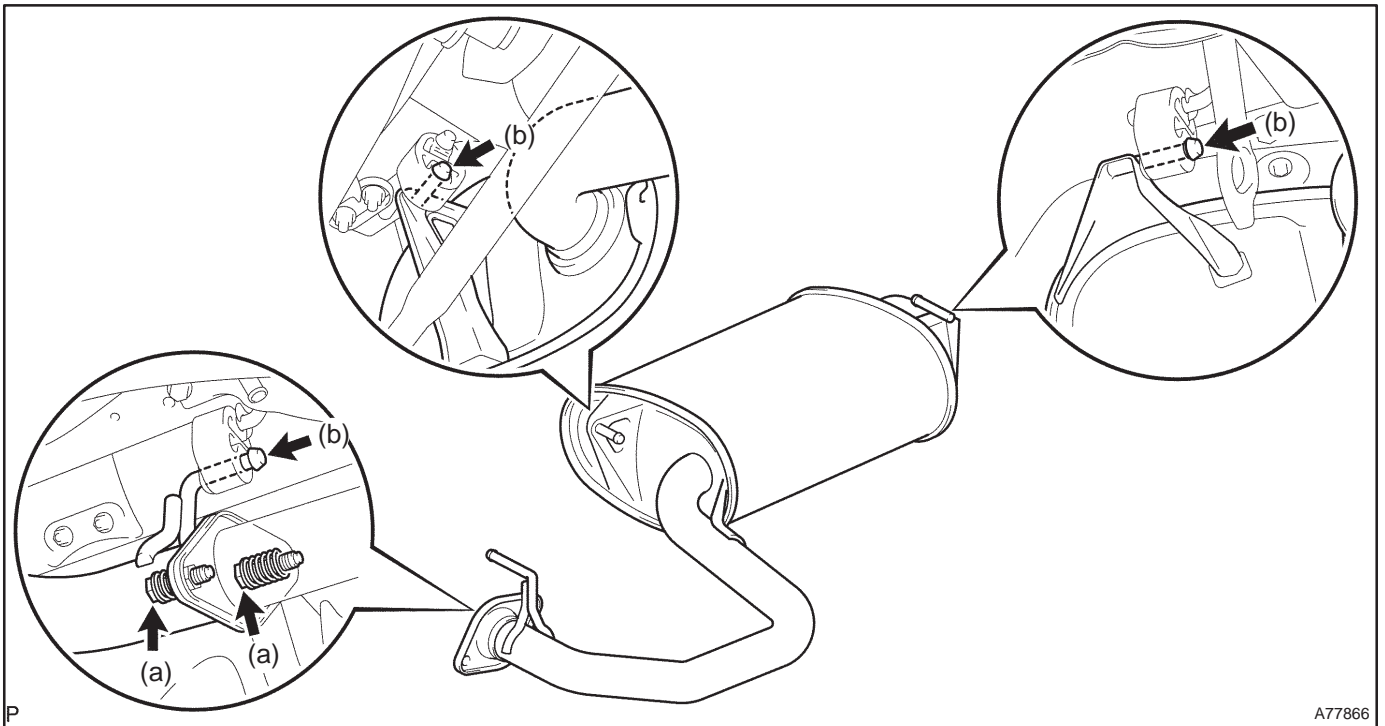
- Disconnect the heated oxygen sensor connector.
- Remove the heated oxygen sensor.

**4. REMOVE FLOOR PANEL BRACE FRONT**

- (a) Remove the 2 nuts, and then remove the floor panel brace front.

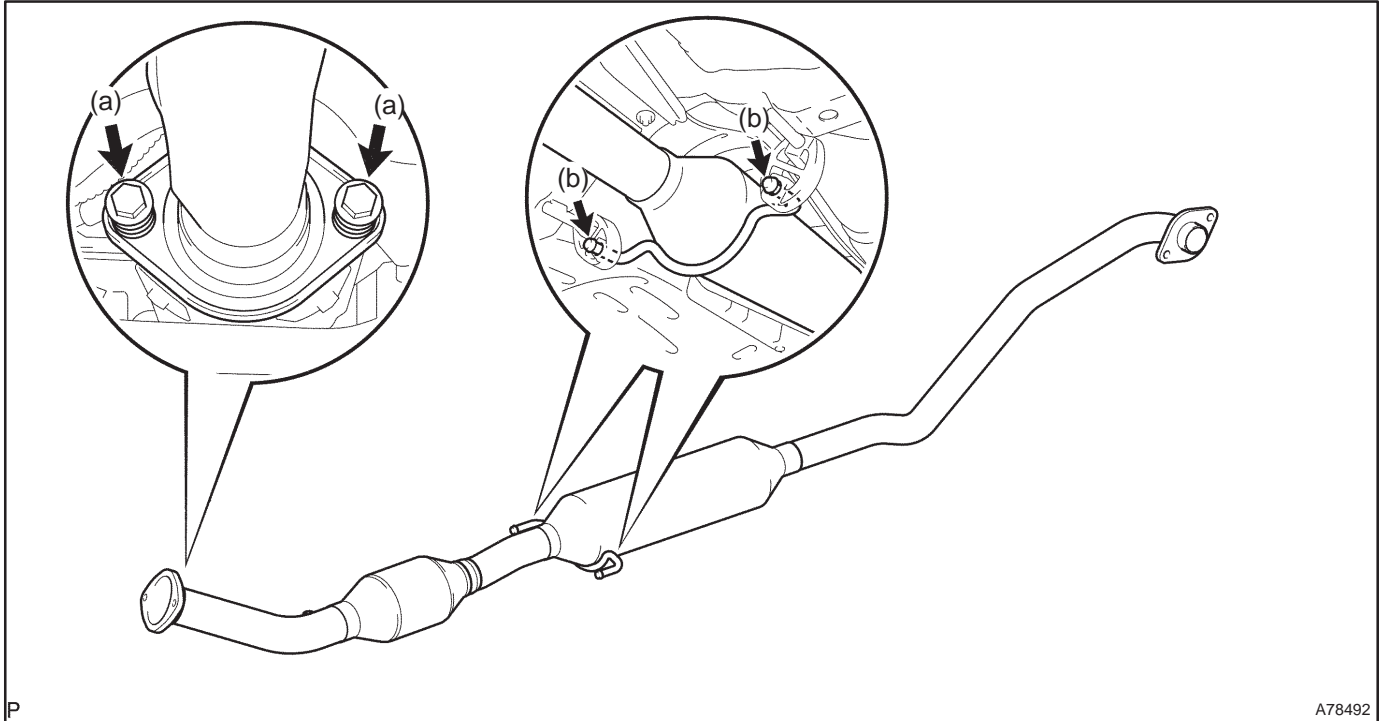
5. REMOVE EXHAUST PIPE ASSY TAIL

- (a) Remove the 2 bolts and 2 compression springs.
(b) Remove the exhaust pipe tail from the 3 exhaust pipe supports.
(c) Remove the gasket from the exhaust pipe front.



6. REMOVE EXHAUST PIPE ASSY FRONT

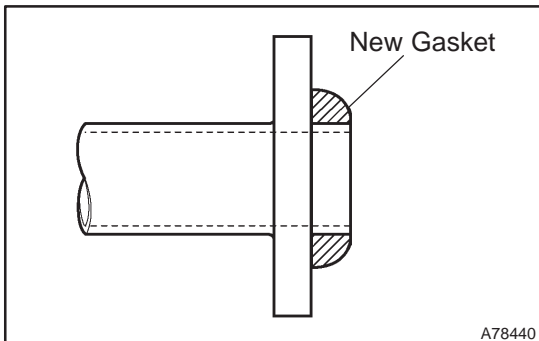
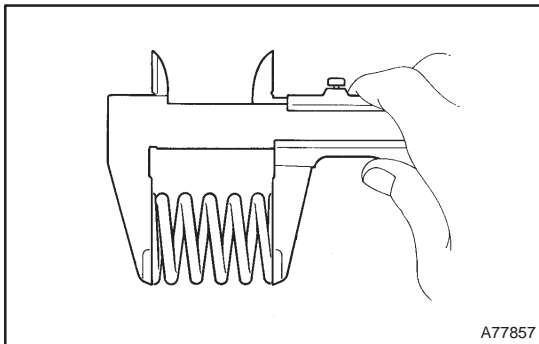
- (a) Remove the 2 bolts and 2 compression springs.
- (b) Remove the exhaust pipe front from the 2 exhaust pipe supports.
- (c) Remove the gasket from the exhaust manifold.

**7. INSTALL EXHAUST PIPE ASSY FRONT**

- (a) Compression spring inspection
 - (1) Using vernier calipers, measure the free length of the compression spring.

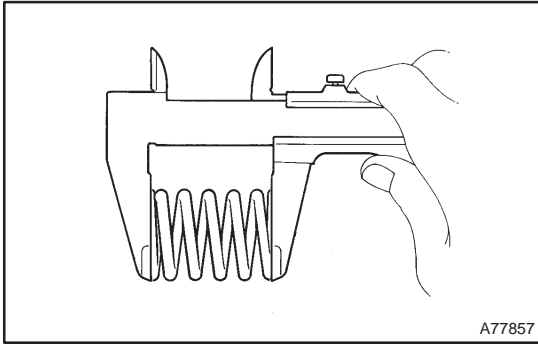
Minimum length: 41.5 mm (1.634 in.)

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



- (b) Install a new gasket to the exhaust manifold as shown in the illustration.
- (c) Install the exhaust pipe front to the 2 exhaust pipe supports.
- (d) Tighten the 2 compression springs and 2 bolts.

Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)

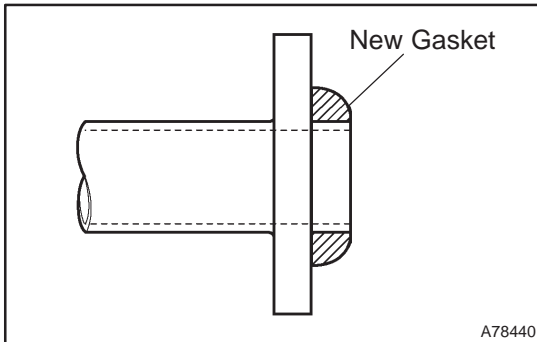


8. INSTALL EXHAUST PIPE ASSY TAIL

- (a) Compression spring inspection
 - (1) Using vernier calipers, measure the free length of the compression spring.

Minimum length: 38.5 mm (1.516 in.)

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



- (b) Install a new gasket to the exhaust pipe front as shown in the illustration.
- (c) Install the exhaust pipe tail to the 3 exhaust pipe supports.
- (d) Tighten the 2 compression springs and 2 bolts.

Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)

9. INSTALL HEATED OXYGEN SENSOR (W/O HID SENSOR)

Torque: 44 N·m (449 kgf·cm, 33 ft·lbf)

10. INSTALL HEATED OXYGEN SENSOR (W/ HID SENSOR)

Torque: 44 N·m (449 kgf·cm, 33 ft·lbf)

11. CHECK FOR EXHAUST GAS LEAKS

12. INSTALL FLOOR PANEL BRACE FRONT

Torque: 30 N·m (302 kgf·cm, 22 ft·lbf)

13. INSTALL FRONT FLOOR FOOTREST (W/O HID SENSOR)