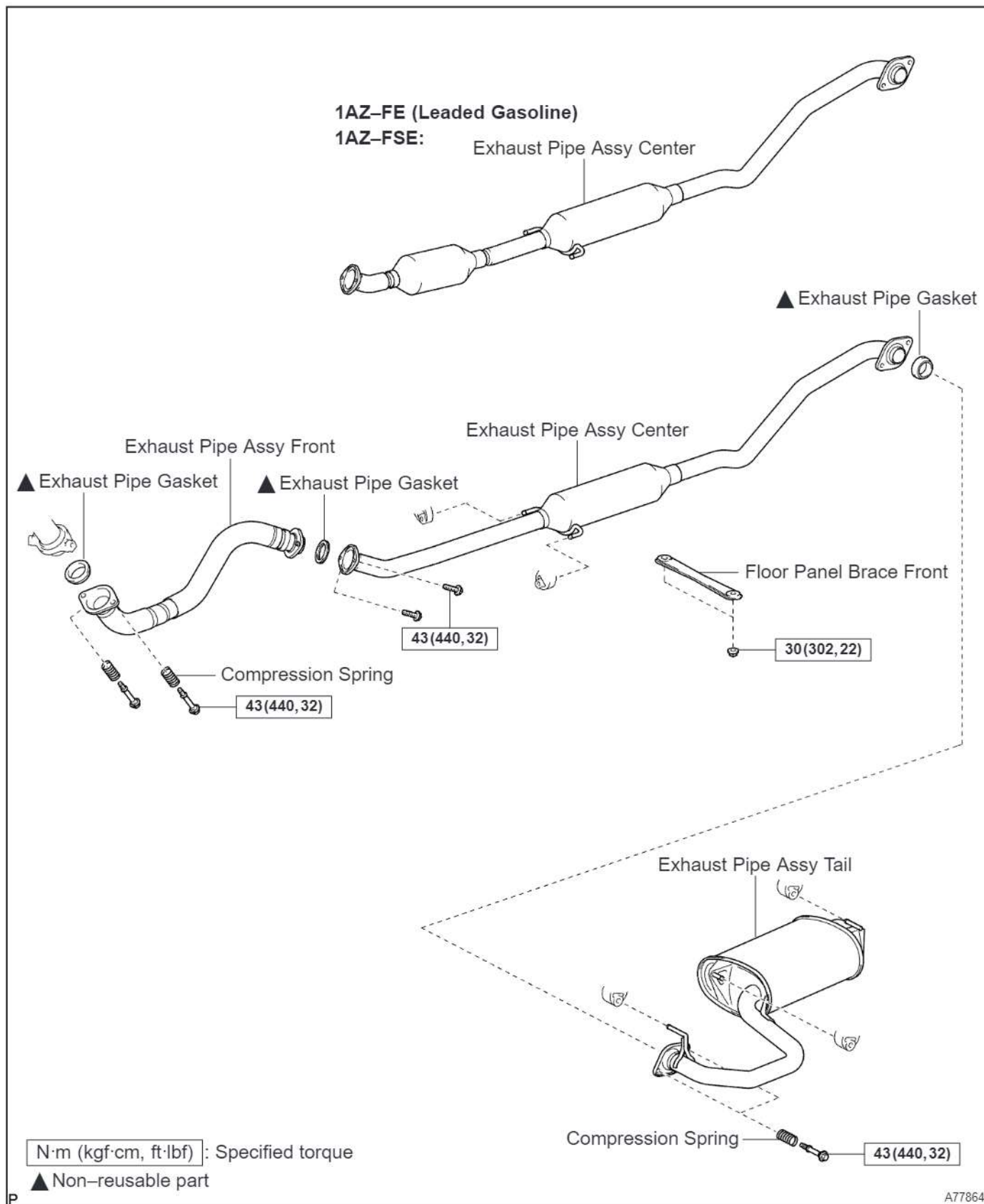


EXHAUST PIPE ASSY (1AZ-FE/1AZ-FSE)

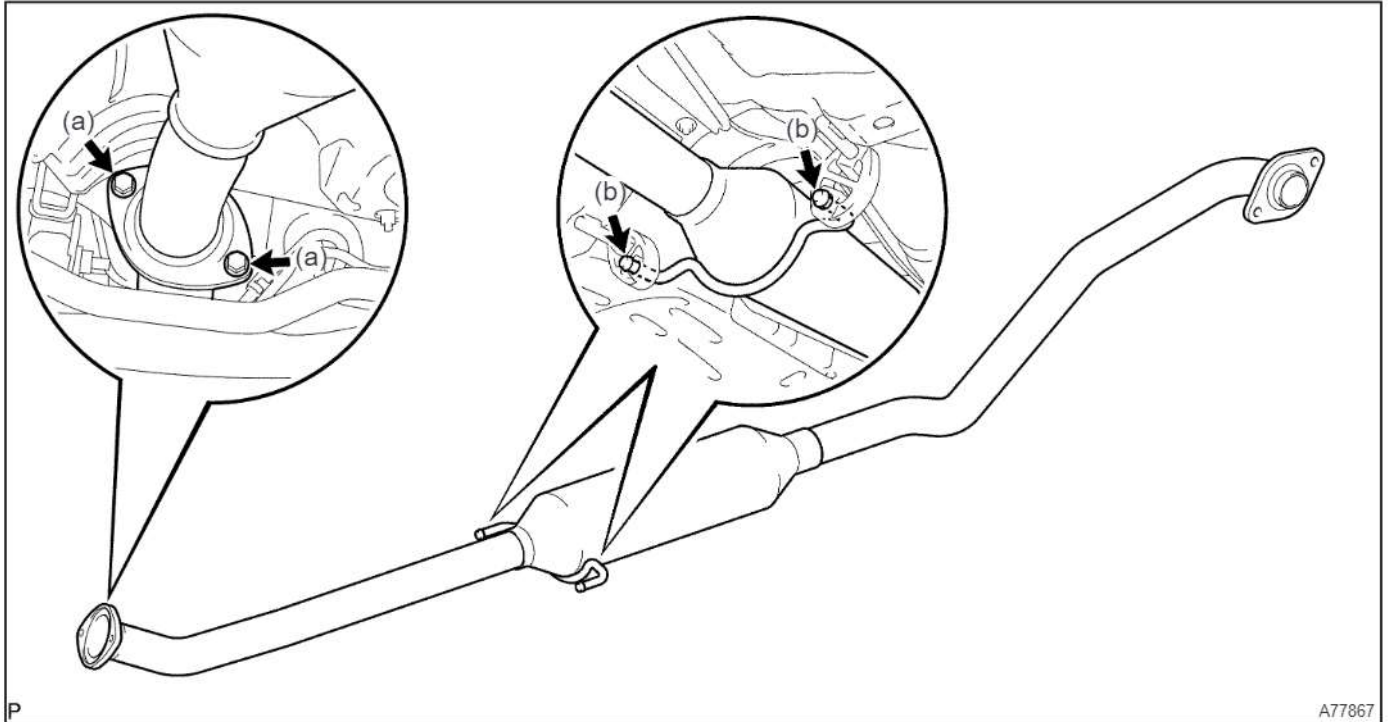
COMPONENTS

1509U-01

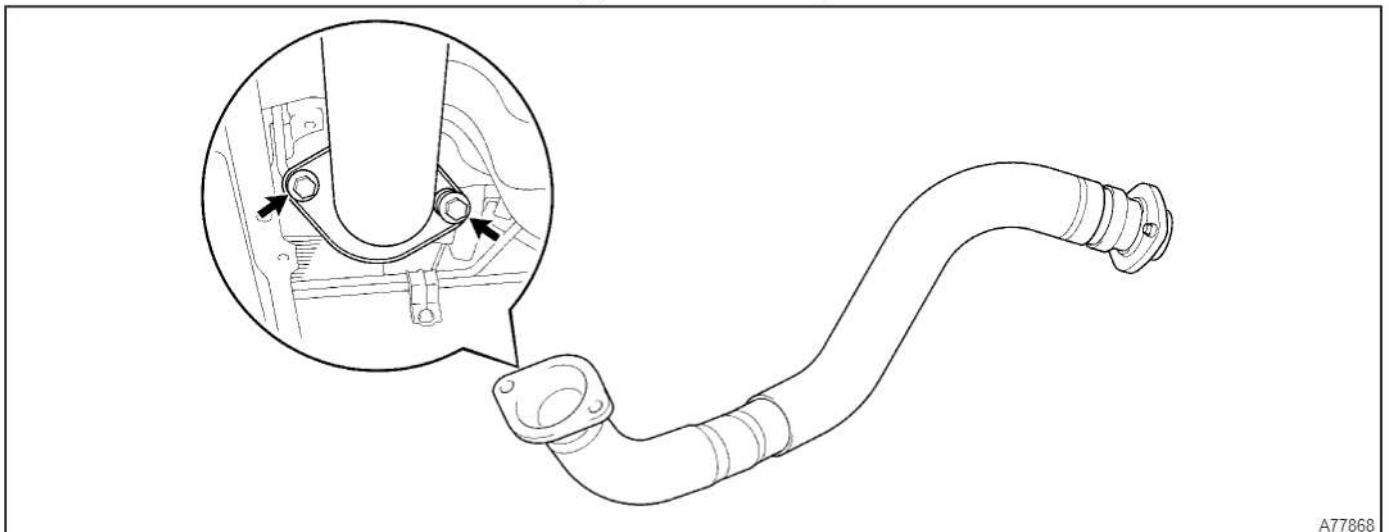


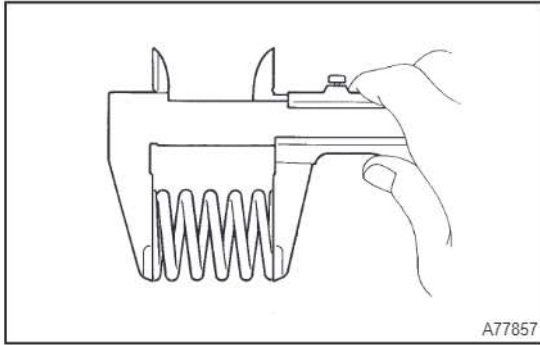
Removal & Installation and Disassembly & Reassembly

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.



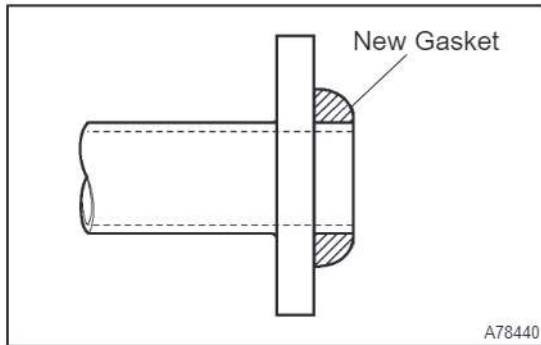


5. INSTALL EXHAUST PIPE ASSY FRONT

- (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)

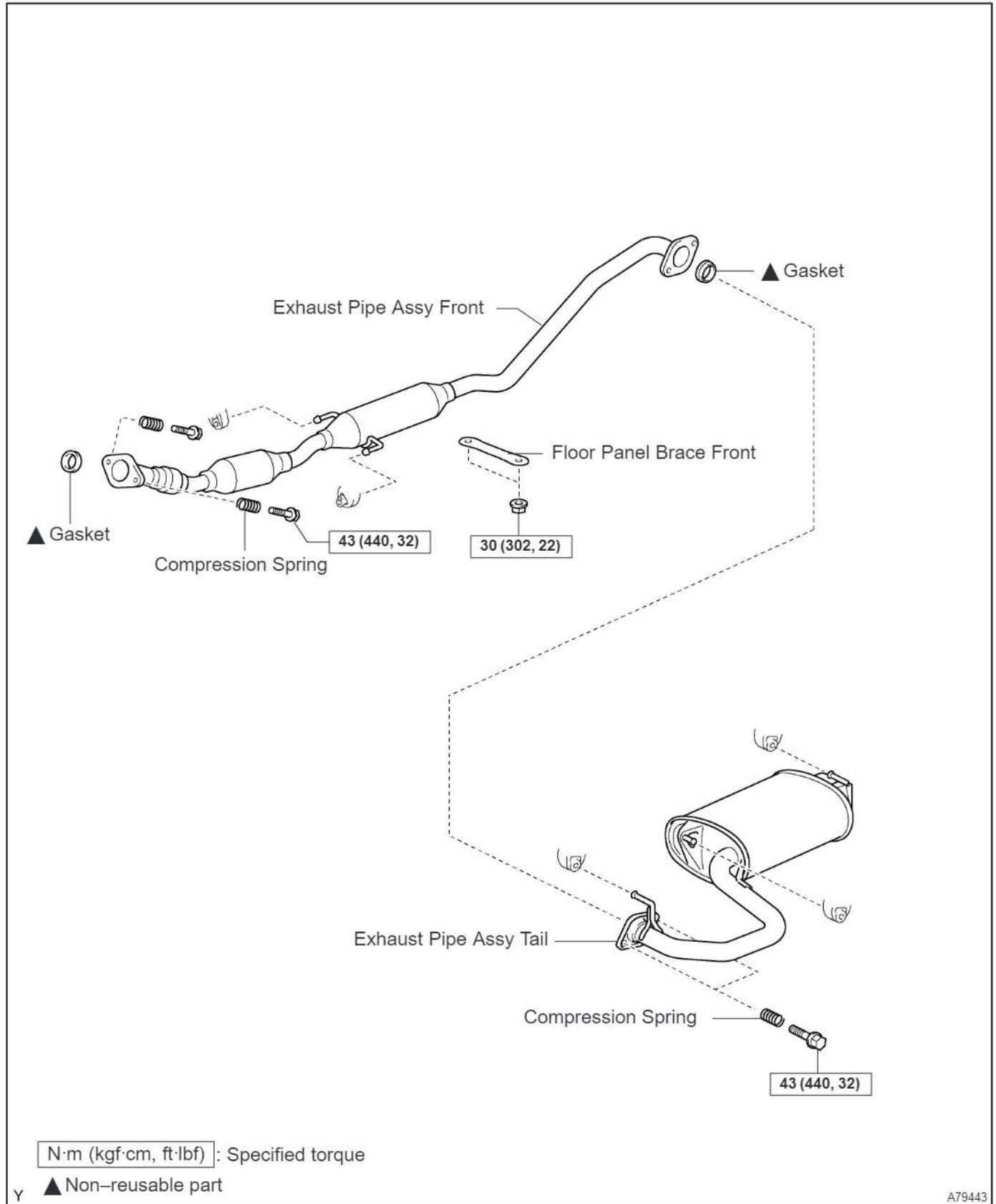
8. CHECK FOR EXHAUST GAS LEAKS

9. INSTALL FLOOR PANEL BRACE FRONT (See page 15-2)

EXHAUST PIPE ASSY (1CD-FTV)

COMPONENTS

1509W-01



A79443

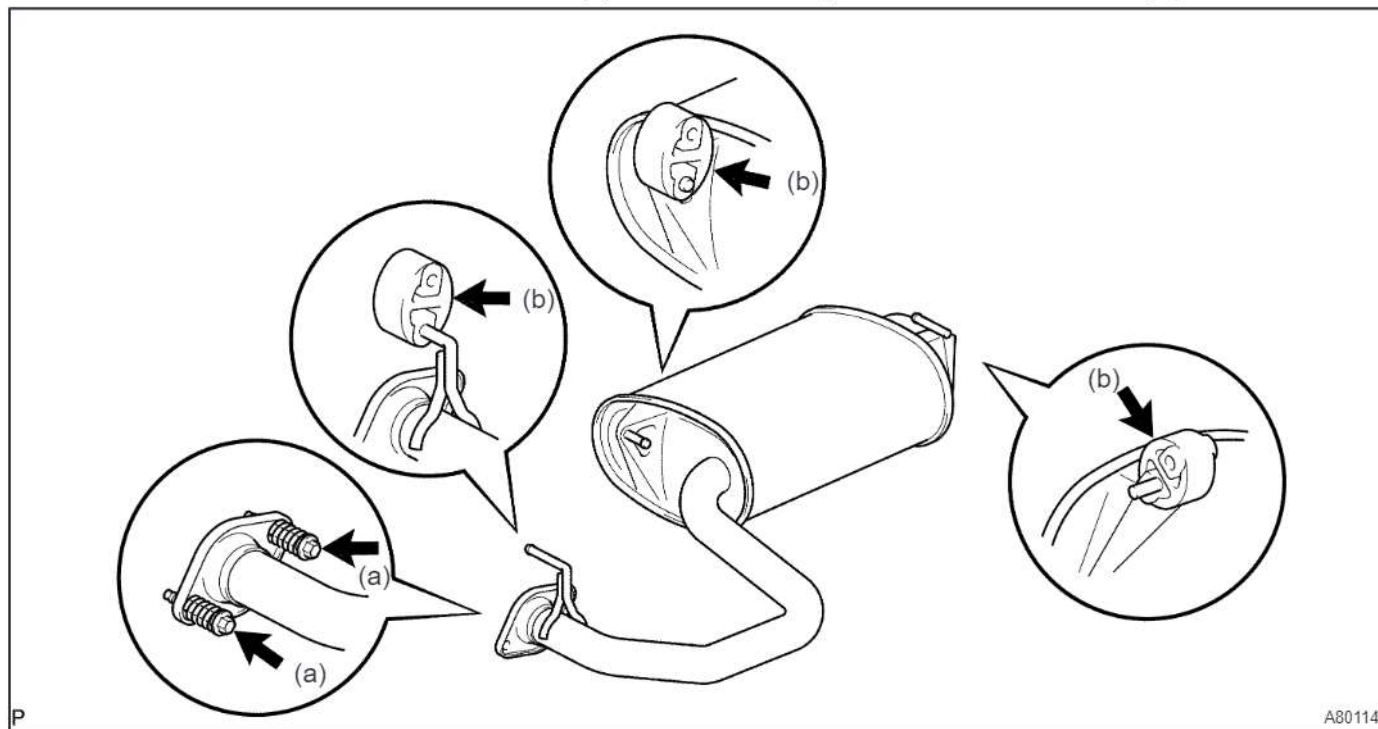
Removal & Installation and Disassembly & Reassembly

1. REMOVE FLOOR PANEL BRACE FRONT

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

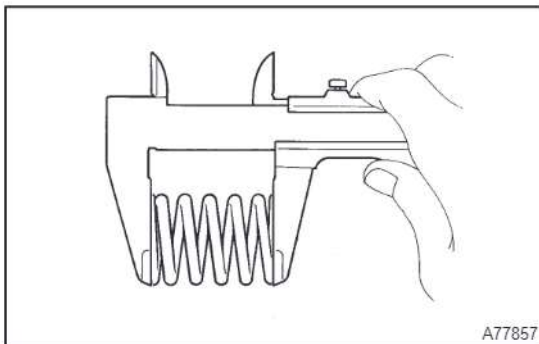
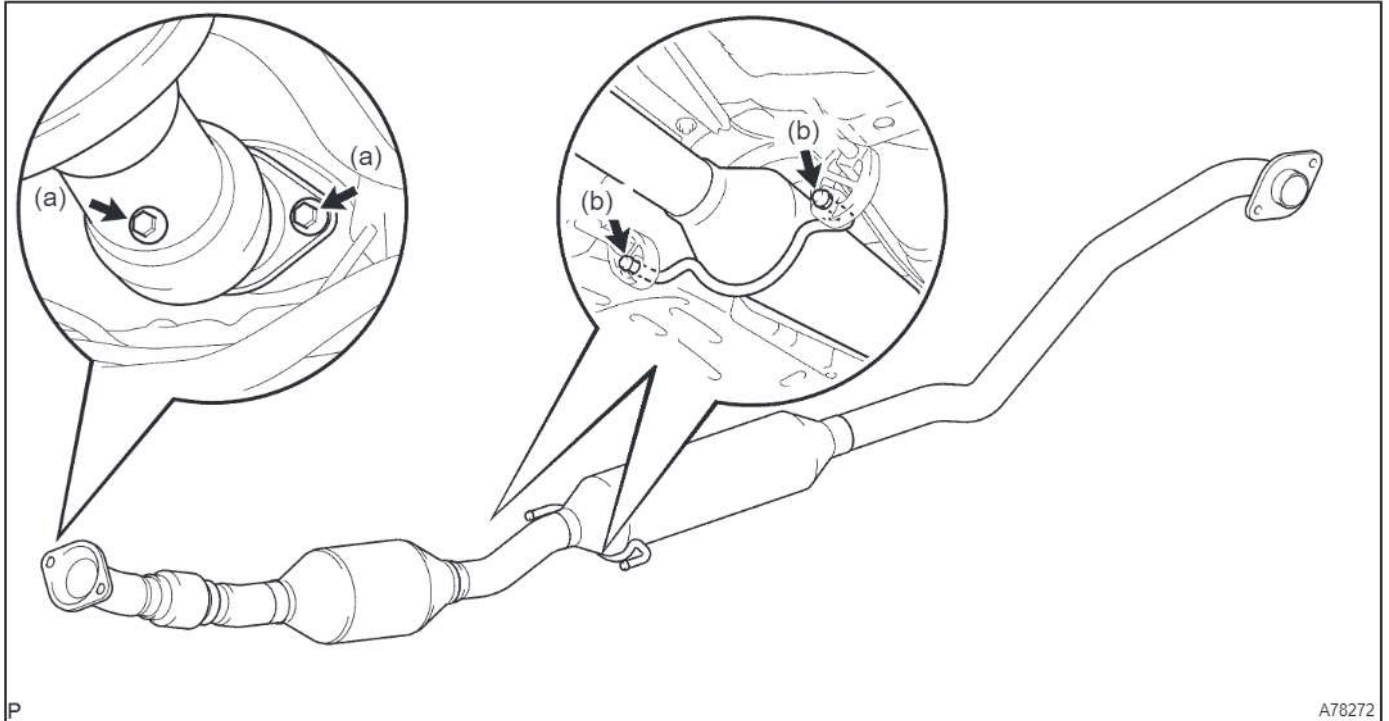
2. REMOVE EXHAUST PIPE ASSY TAIL

- (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.



3. REMOVE EXHAUST PIPE ASSY FRONT

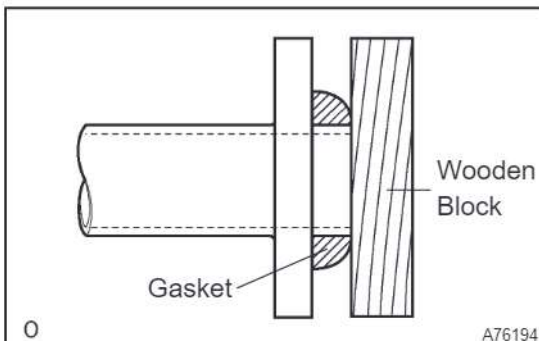
- (a) Remove the 2 bolts and 2 compression springs.
- (b) Disconnect the 2 exhaust pipe supports and remove the exhaust pipe front.
- (c) Remove the gasket from the manifold converter.

**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.

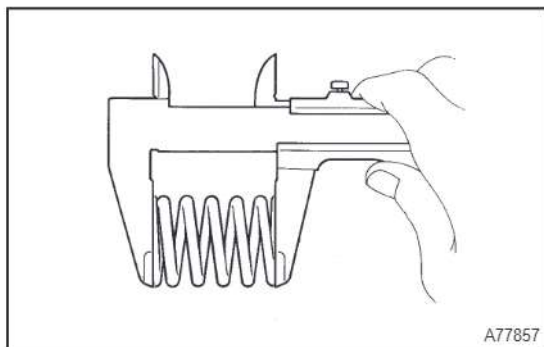


- (b) Using a plastic hammer and a wooden block, tap in a new gasket until its surface is flush with the exhaust manifold.

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)

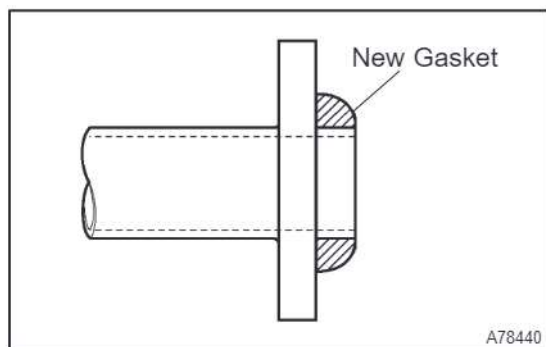


5. INSTALL EXHAUST PIPE ASSY TAIL

- (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

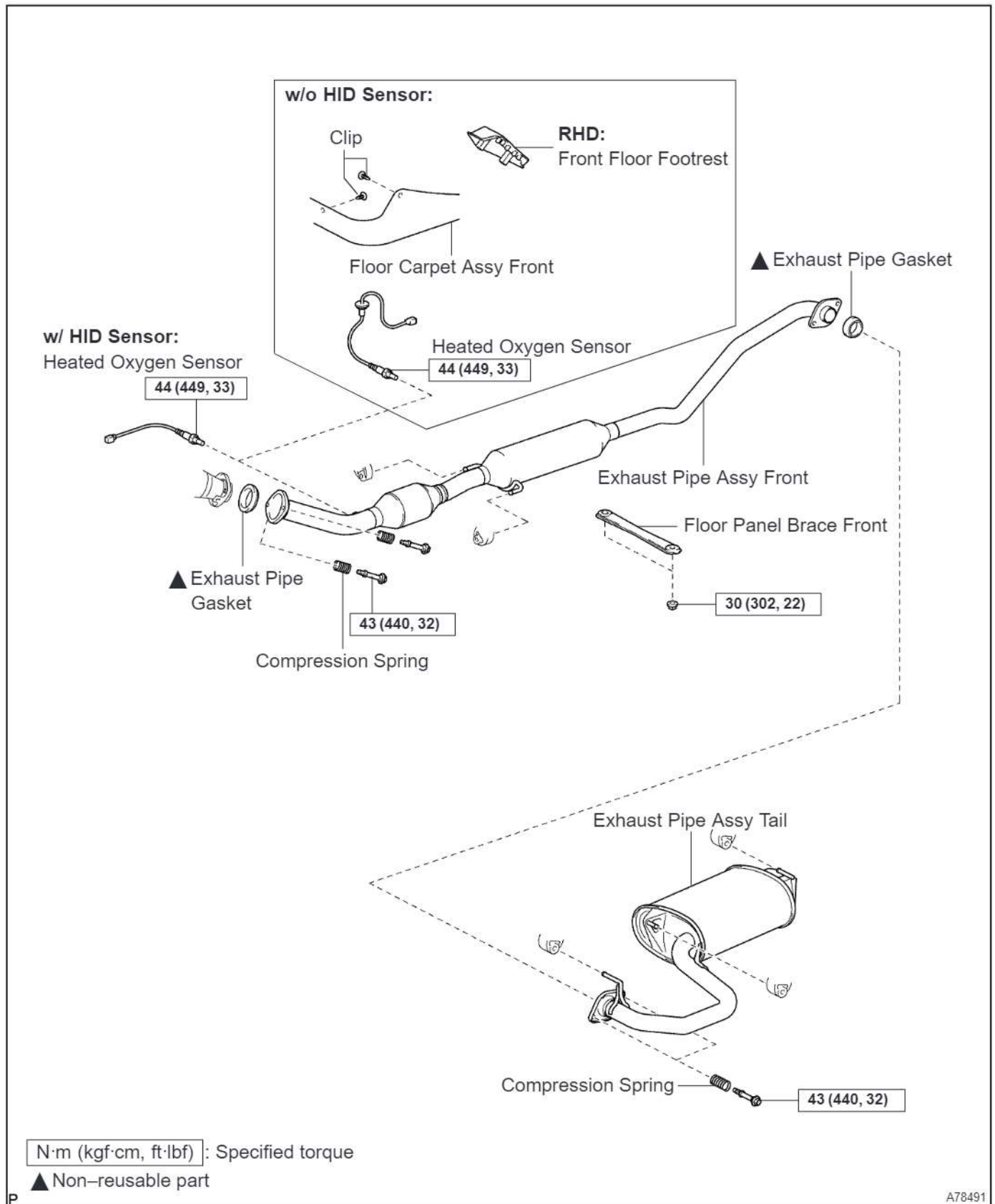
7. INSTALL FLOOR PANEL BRACE FRONT

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

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

COMPONENTS

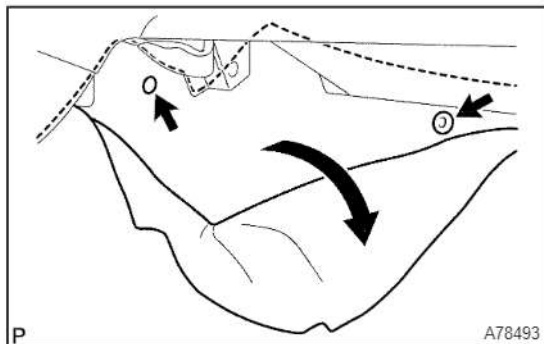
15095-01



A78491

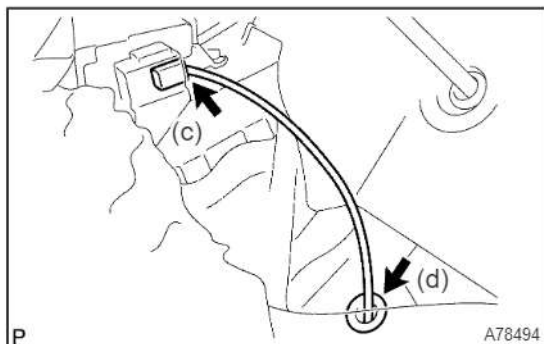
Removal & Installation and Disassembly & Reassembly

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

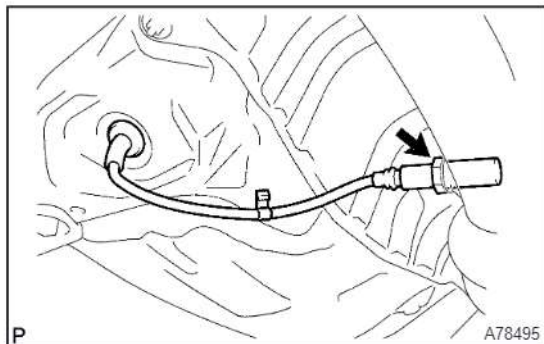


2. REMOVE HEATED OXYGEN SENSOR (W/O HID SENSOR)

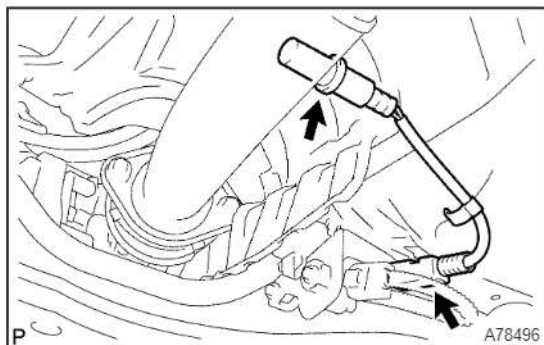
- (a) Using a clip remover, remove the 2 clips.
- (b) Open the floor carpet.



- (c) Disconnect the heated oxygen sensor connector.
- (d) Remove the grommet.

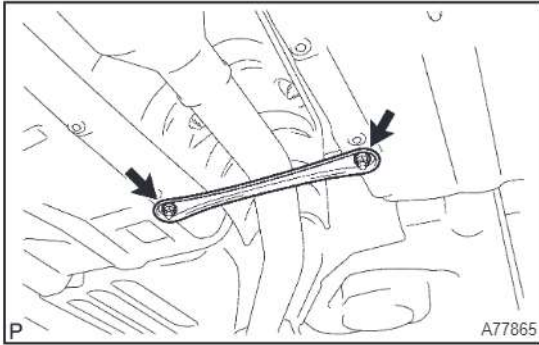


- (e) Remove the heated oxygen sensor.



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

- (a) Disconnect the heated oxygen sensor connector.
- (b) Remove the heated oxygen sensor.

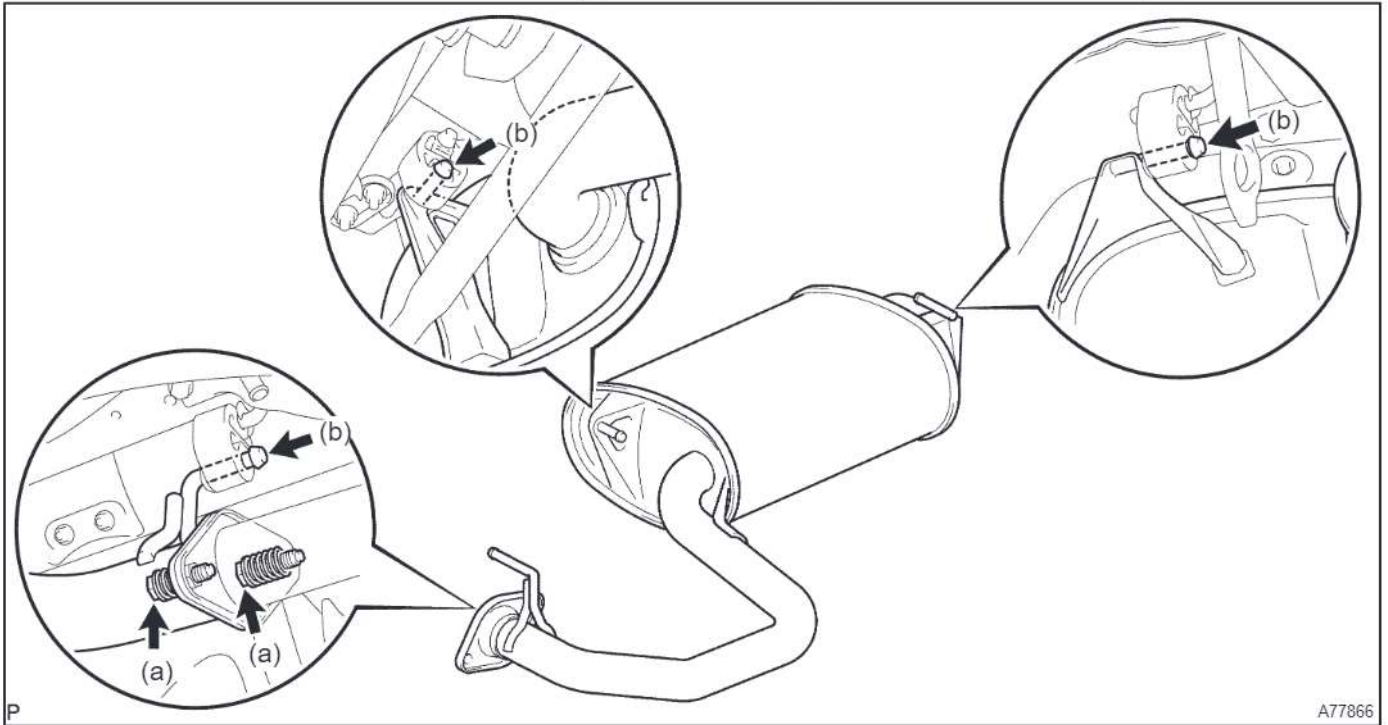


4. REMOVE FLOOR PANEL BRACE FRONT

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

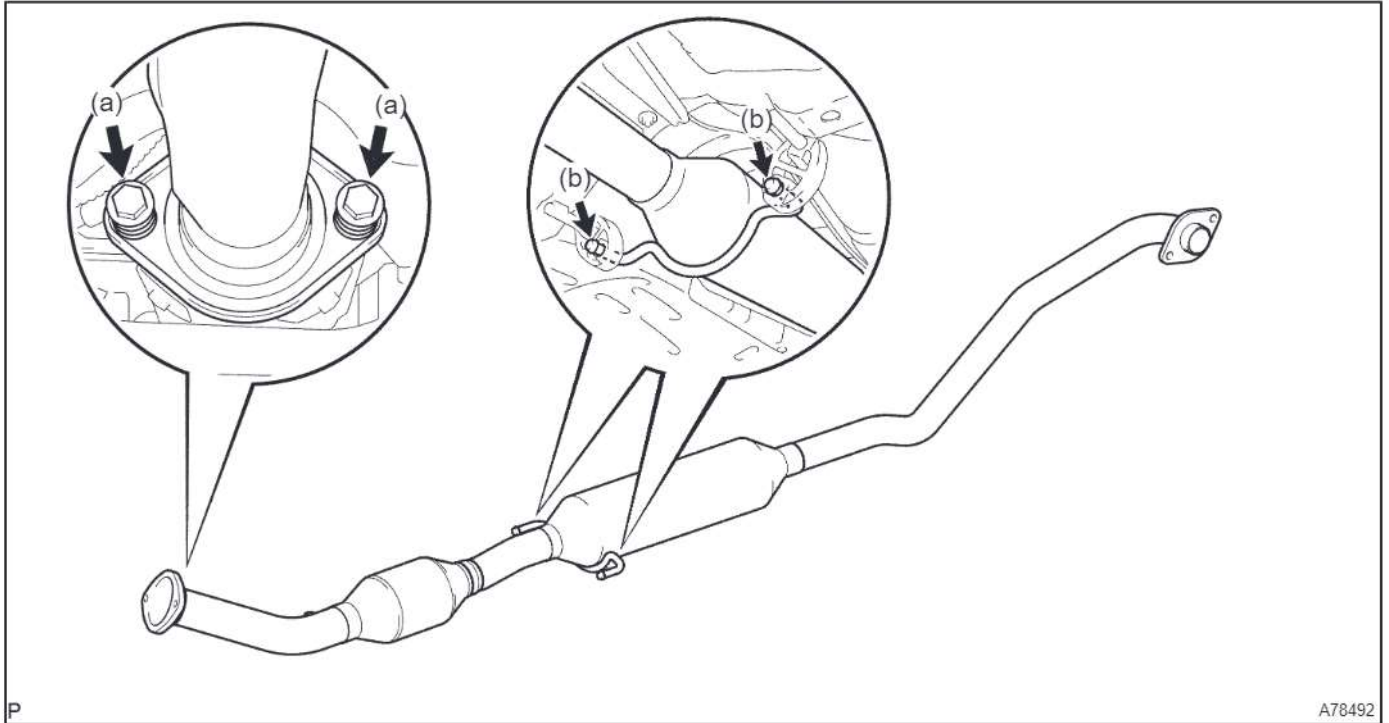
5. REMOVE EXHAUST PIPE ASSY TAIL

- (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

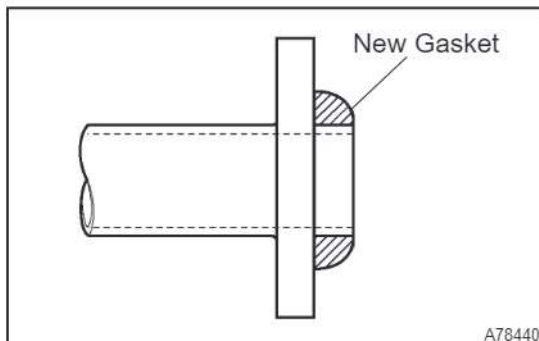
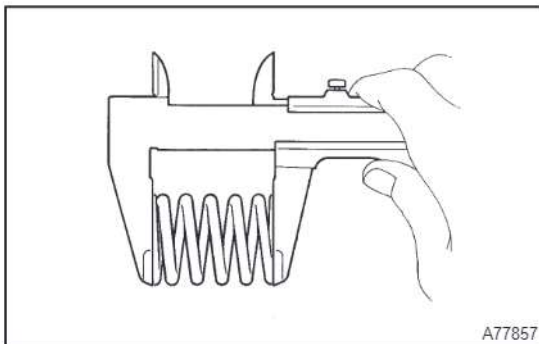
- (a) Remove the 2 bolts and 2 compression springs.
- (b) Remove the exhaust pipe front from the 2 exhaust pipe supports.
- (c) Remove the gasket from the exhaust manifold.

**7. INSTALL EXHAUST PIPE ASSY FRONT**

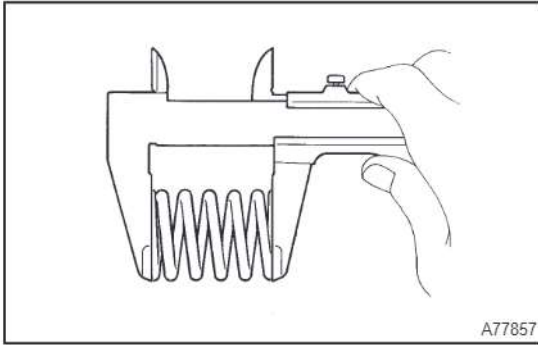
- (a) Compression spring inspection
 - (1) Using vernier calipers, measure the free length of the compression spring.

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)**

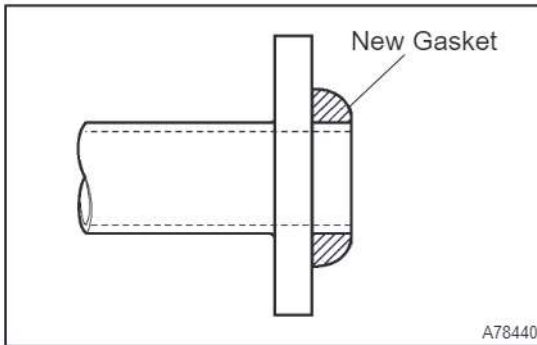


8. INSTALL EXHAUST PIPE ASSY TAIL

- (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)