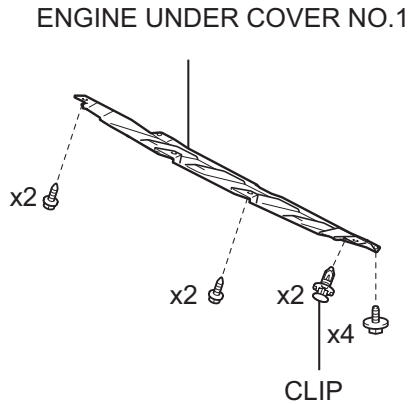


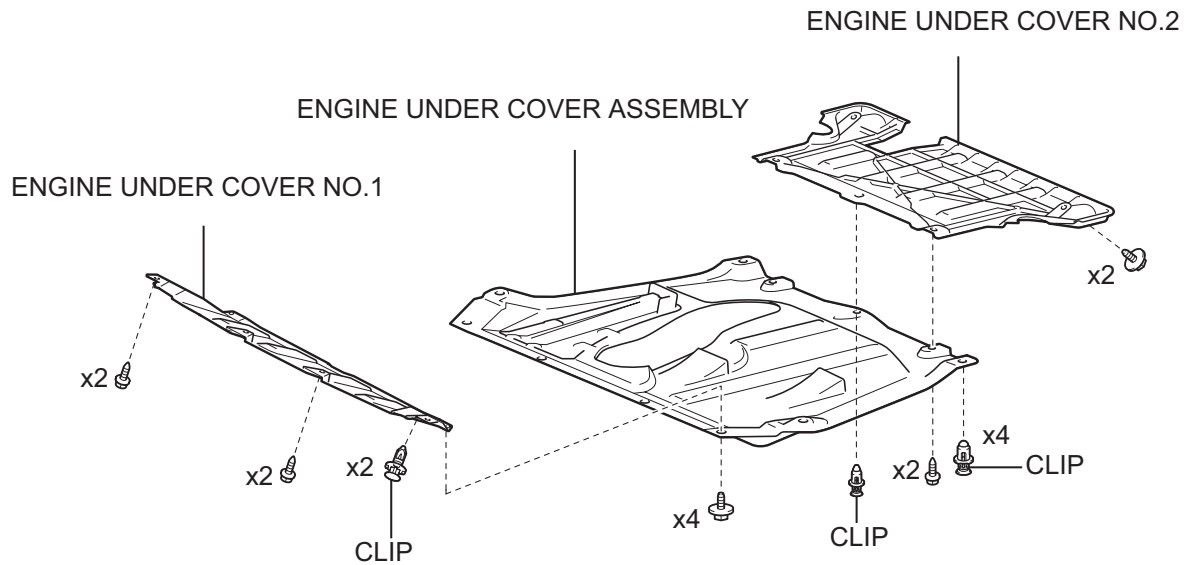
3MZ-FE EXHAUST PIPE

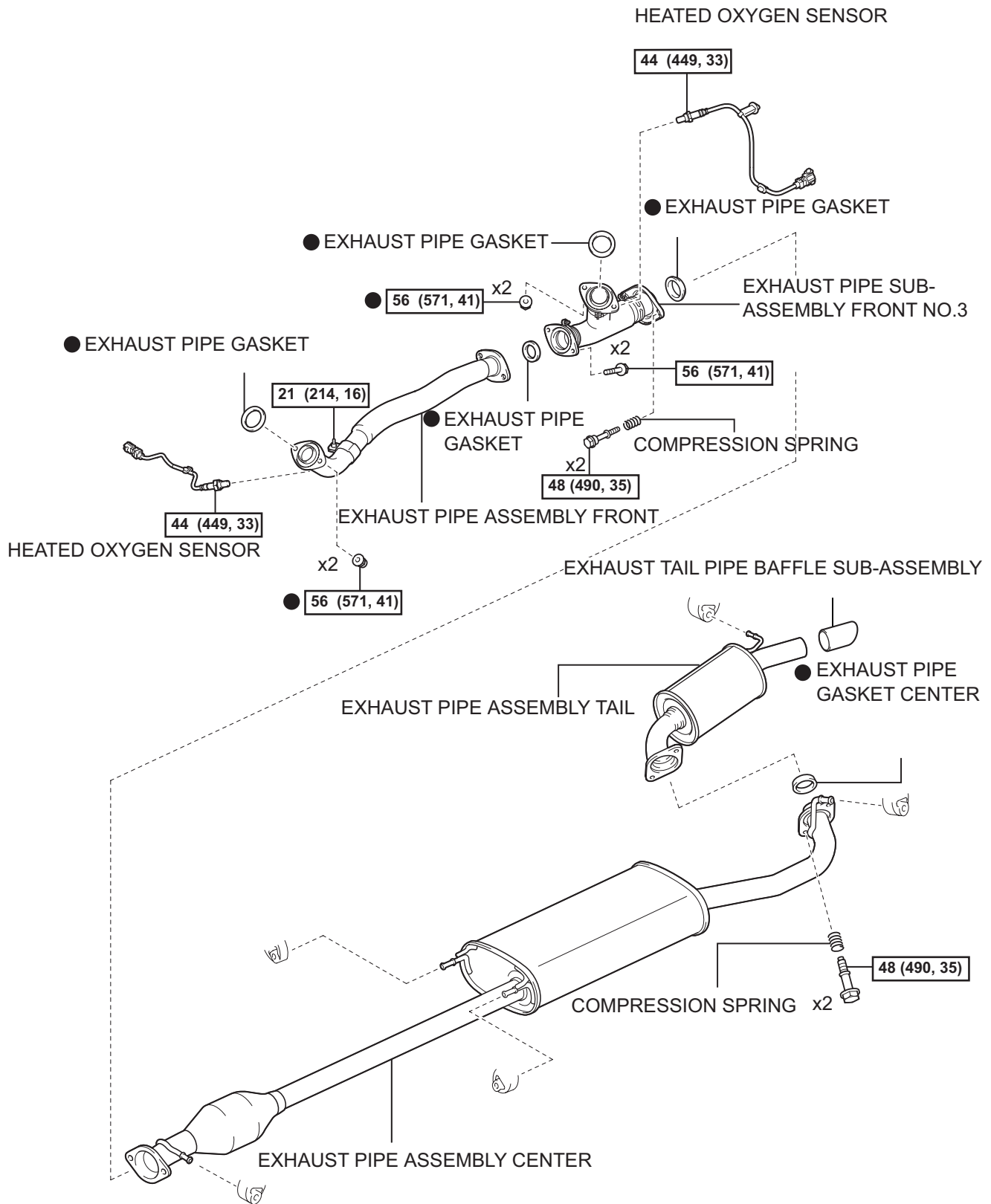
COMPONENTS

W/O ENGINE UNDER COVER ASSEMBLY AND ENGINE UNDER COVER NO. 2:



W/ ENGINE UNDER COVER ASSEMBLY AND ENGINE UNDER COVER NO. 2:





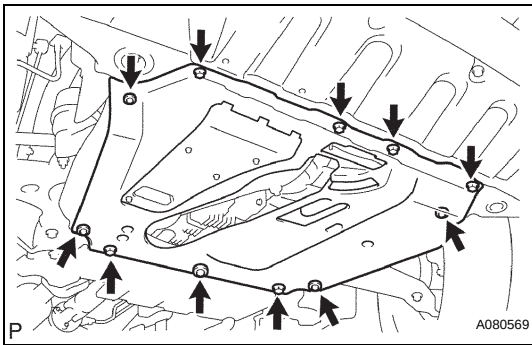
N*m (kgf*cm, ft.*lbf) : Specified torque

● Non-reusable part

REMOVAL

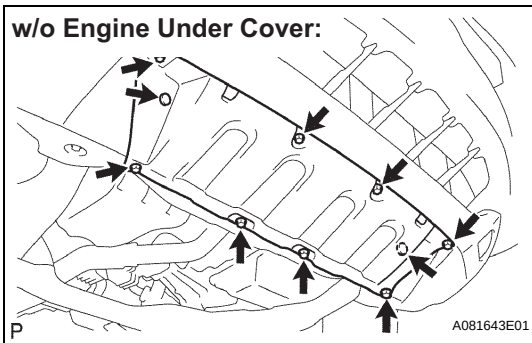
1. REMOVE ENGINE UNDER COVER ASSEMBLY

- (a) w/ Engine the 5 clips, 4 bolts and 2 screws, and then remove the engine under cover.
 - (1) Remove the 5 clips, 4 bolts and 2 screws, and then remove the engine under cover.

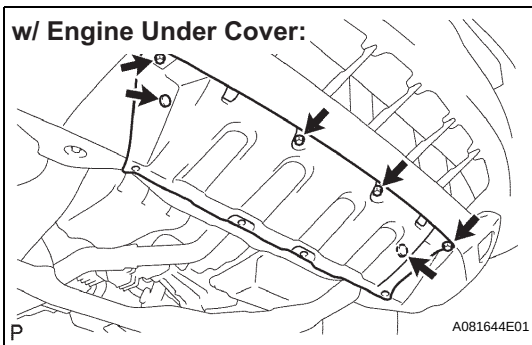


2. REMOVE ENGINE UNDER COVER NO.1

- (a) w/o Engine under cover
 - (1) Remove the 2 clips, 6 bolts and 2 screws, and then remove the engine under cover No. 1.

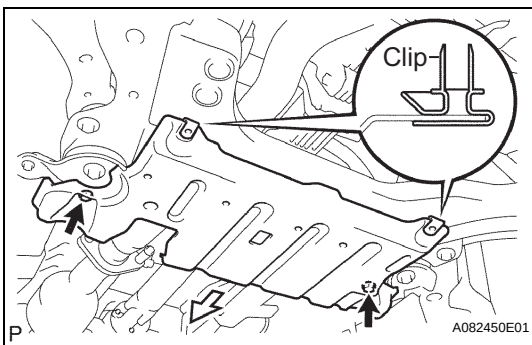


- (b) w/ Engine under cover
 - (1) Remove the 2 clips, 2 bolts and 2 screws, and then remove the engine under cover No. 1.



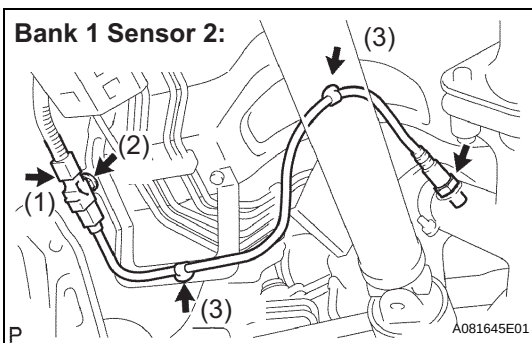
3. REMOVE ENGINE UNDER COVER NO.2

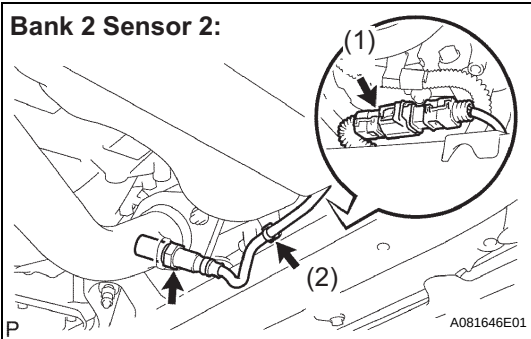
- (a) w/ Engine under cover No. 2.
 - (1) Remove the 2 bolts.
 - (2) Slide the engine under cover No. 2 toward the rear to detach it from the retainers, and then remove the engine under cover No. 2.



4. REMOVE HEATED OXYGEN SENSOR

- (a) Bank 1 Sensor 2
 - (1) Disconnect the heated oxygen sensor connector.
 - (2) Remove the connector clamp.
 - (3) Remove the 2 wire harness clamps.
 - (4) Remove the heated oxygen sensor.

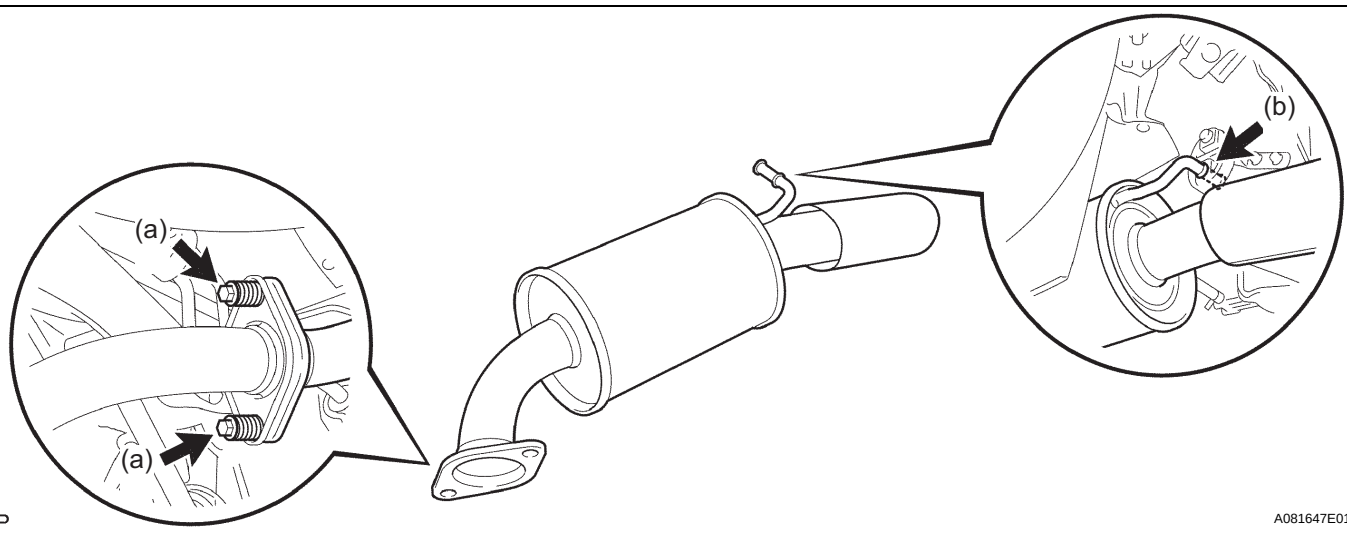


Bank 2 Sensor 2:

- (b) Bank 2 Sensor 2
 - (1) Disconnect the heated oxygen sensor connector.
 - (2) Remove the wire harness clamp.
 - (3) Remove the heated oxygen sensor.

5. REMOVE EXHAUST PIPE ASSEMBLY TAIL

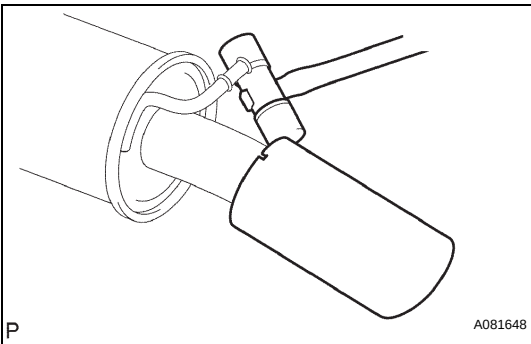
- (a) Remove the 2 bolts and 2 compression springs.
- (b) Remove the exhaust pipe tail from the exhaust pipe support.
- (c) Remove the gasket from the exhaust pipe center.

**6. REMOVE EXHAUST TAIL PIPE BAFFLE SUB-ASSEMBLY**

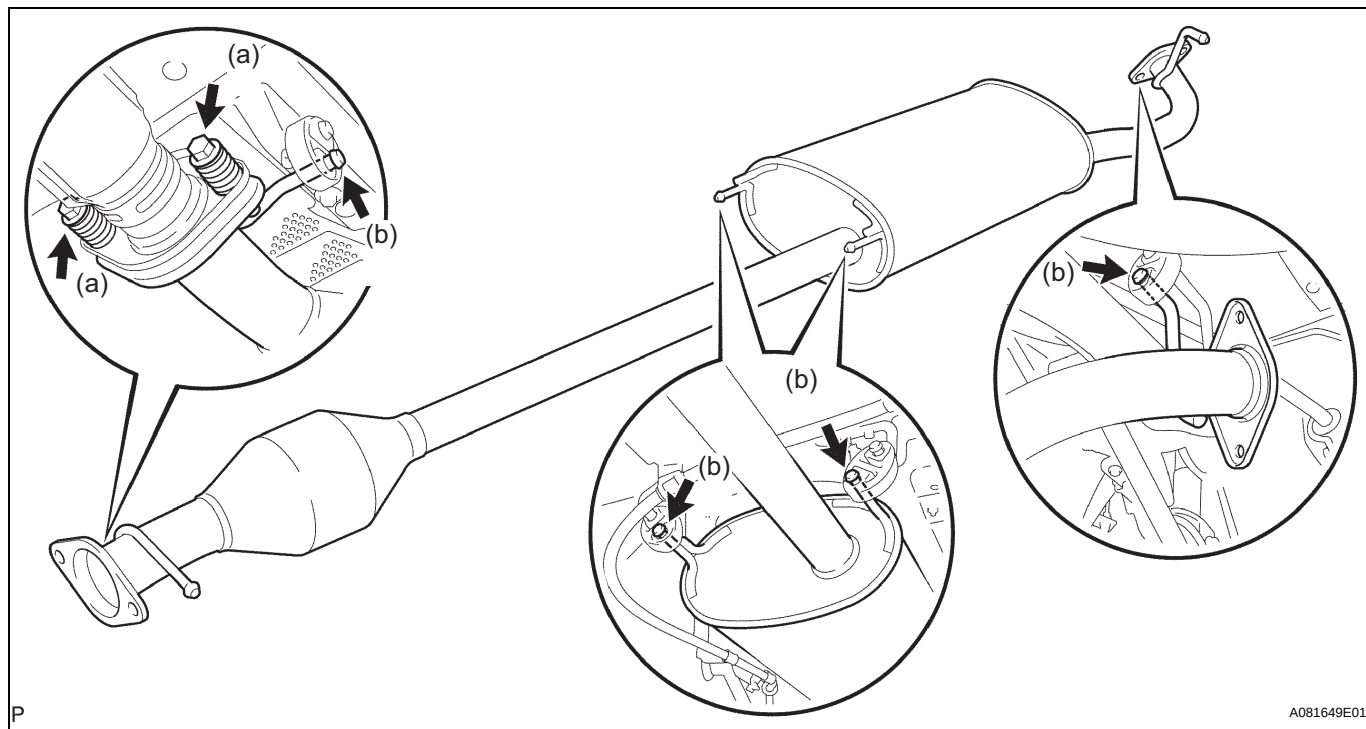
- (a) Using a plastic hammer, tap the exhaust tail pipe baffle uniformly to remove.

7. REMOVE EXHAUST PIPE ASSEMBLY CENTER

- (a) Remove the 2 bolts and 2 compression springs.
- (b) Remove the exhaust pipe center from the 4 exhaust pipe supports.

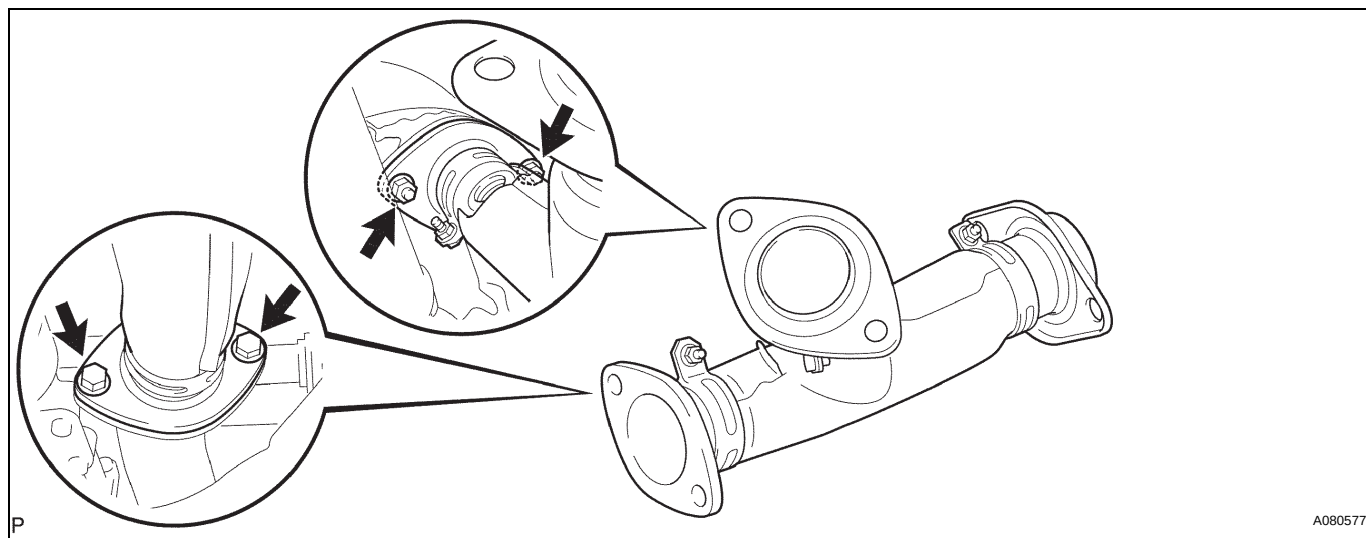


- (c) Remove the gasket from the exhaust pipe front No. 3.



8. REMOVE EXHAUST PIPE SUB-ASSEMBLY FRONT NO.3

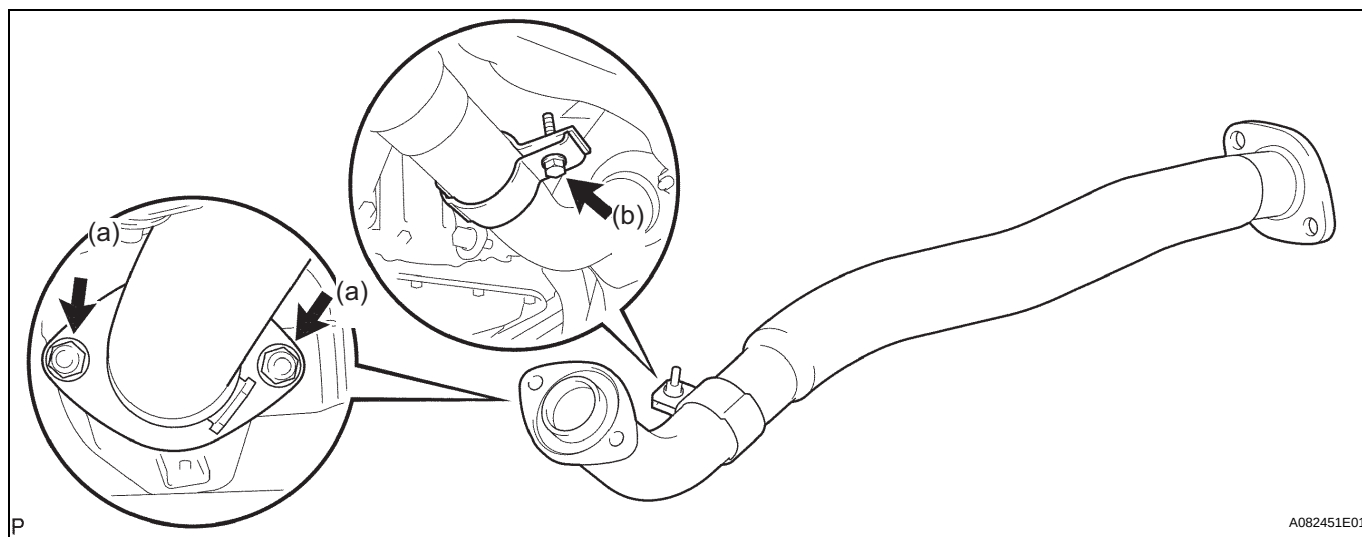
- (a) Remove the 2 bolts and 2 nuts, and remove the exhaust pipe front No. 3 and the 2 gaskets.



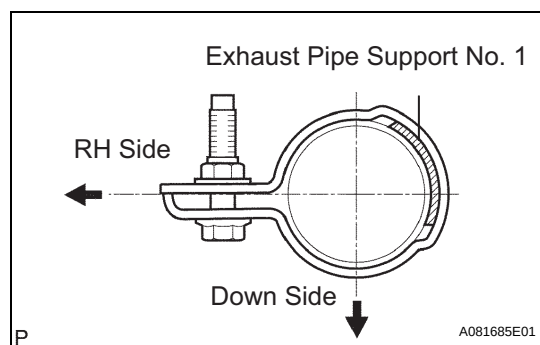
9. REMOVE EXHAUST PIPE ASSEMBLY FRONT

- (a) Remove the 2 nuts.

- (b) Loosen the clamp bolts, and remove the exhaust pipe front and the gasket.



EX



INSTALLATION

1. INSTALL EXHAUST PIPE ASSEMBLY FRONT

- (a) Install a new gasket and the exhaust pipe front to the exhaust pipe support bracket No. 1.

NOTICE:

When installing the exhaust pipe front, align gaps of the clamp and the exhaust pipe support bracket No. 1.

- (b) Tighten 2 new nuts.

Torque: 56 N*m (571 kgf*cm, 41 ft.*lbf)

- (c) Tighten the clamp bolt.

Torque: 21 N*m (214 kgf*cm, 16 ft.*lbf)

2. INSTALL EXHAUST PIPE SUB-ASSEMBLY FRONT NO.3

- (a) Install 2 new gaskets and the exhaust pipe front No. 3 with the 2 bolts and 2 new nuts.

Torque: 56 N*m (571 kgf*cm, 41 ft.*lbf)

3. INSTALL EXHAUST PIPE ASSEMBLY CENTER

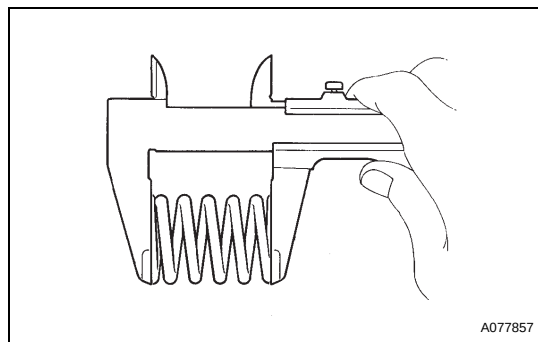
- (a) Compression spring inspection

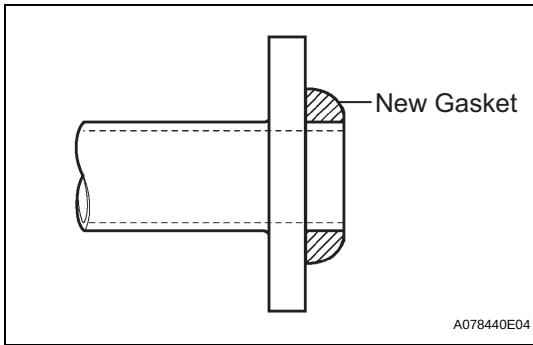
- (1) Using vernier calipers, measure the free length of the compression spring.

Minimum length:

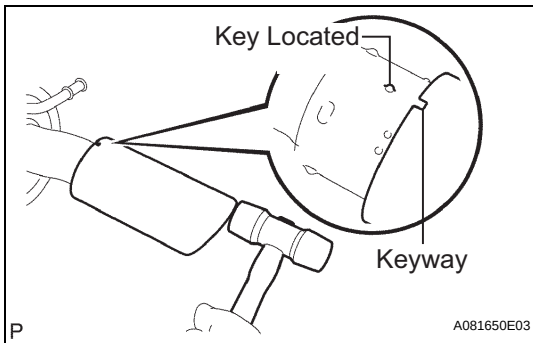
41.5 mm (1.634 in.)

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



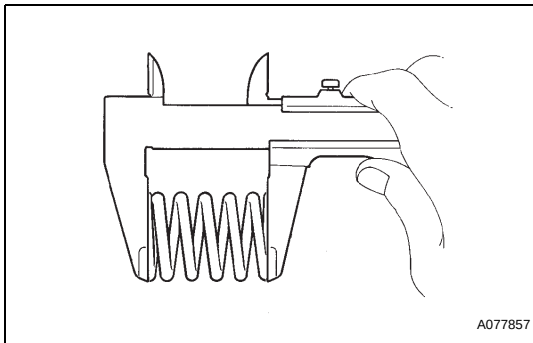


- (b) Install a new gasket to the exhaust pipe front No. 3 as shown in the illustration.
- (c) Tighten the 2 bolts and 2 compression springs.
Torque: 48 N*m (490 kgf*cm, 35 ft.*lbf)



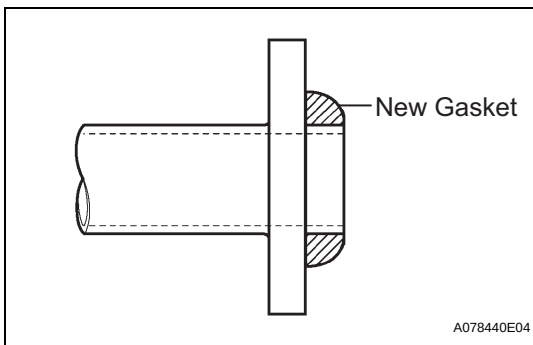
4. INSTALL EXHAUST TAIL PIPE BAFFLE SUB-ASSEMBLY

- (a) Align the keyway of the exhaust tail pipe baffle with the key located on the exhaust pipe tail.
- (b) Using a plastic hammer, tap the exhaust tail pipe baffle to install.



5. INSTALL EXHAUST PIPE ASSEMBLY TAIL

- (a) Compression spring inspection
 - (1) Using vernier calipers, measure the free length of the compression spring.
Minimum length: 40.5 mm (1.594 in.)
If the free length is less than the minimum, replace the compression spring.



- (b) Install a new gasket to the exhaust pipe center as shown in the illustration.
- (c) Tighten the 2 bolts and 2 compression springs.
Torque: 48 N*m (490 kgf*cm, 35 ft.*lbf)

6. INSTALL HEATED OXYGEN SENSOR

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

7. CHECK FOR EXHAUST GAS LEAKS

8. INSTALL ENGINE UNDER COVER NO.2

- (a) w/ Engine under cover No. 2.

9. INSTALL ENGINE UNDER COVER NO.1

10. INSTALL ENGINE UNDER COVER ASSEMBLY

- (a) w/ Engine under cover assembly.