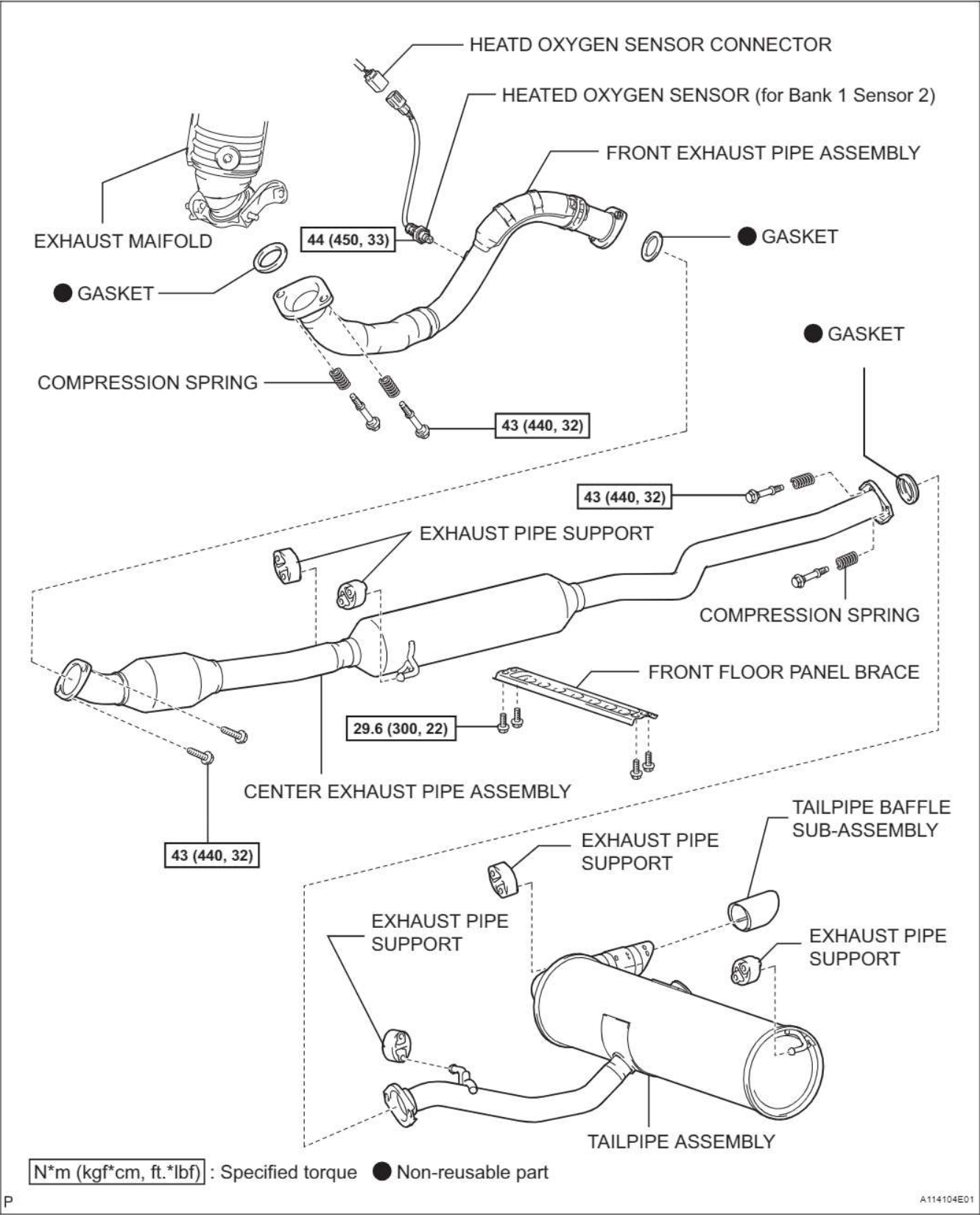


EXHAUST PIPE
COMPONENTS



EX-2

2AZ-FE EXHAUST – EXHAUST PIPE

REMOVAL

1. **DISCONNECT CABLE FROM BATTERY NEGATIVE TERMINAL**

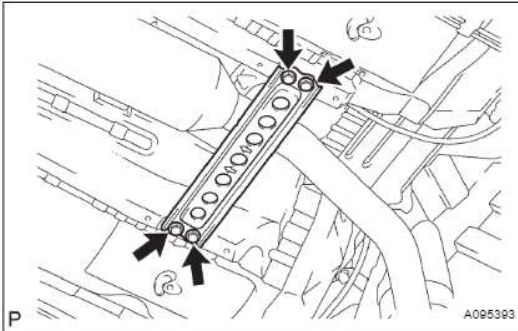
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. **REMOVE HEATED OXYGEN SENSOR (for Bank 1 Sensor 2) (See page EC-21)**

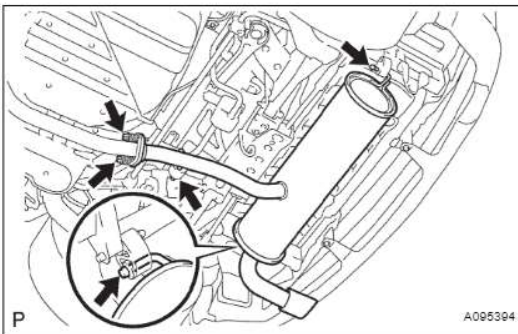
3. **REMOVE FRONT FLOOR PANEL BRACE**

(a) Remove the 4 bolts and floor panel brace.



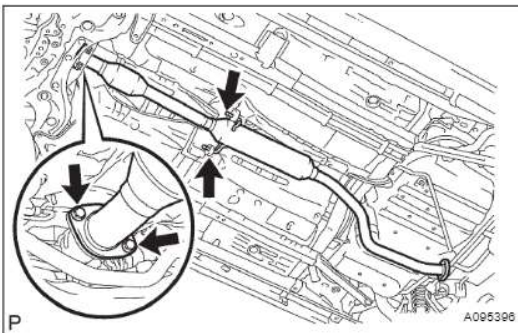
4. **REMOVE TAILPIPE ASSEMBLY**

(a) Remove the 2 bolts and 2 compression springs.
 (b) Remove the tailpipe from the 3 pipe supports.
 (c) Remove the gasket from the center exhaust pipe.



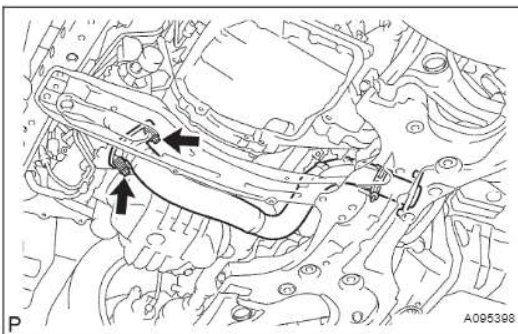
5. **REMOVE CENTER EXHAUST PIPE ASSEMBLY**

(a) Remove the 2 bolts.
 (b) Remove the center exhaust pipe from the 2 pipe supports.
 (c) Remove the gasket from the front exhaust pipe.

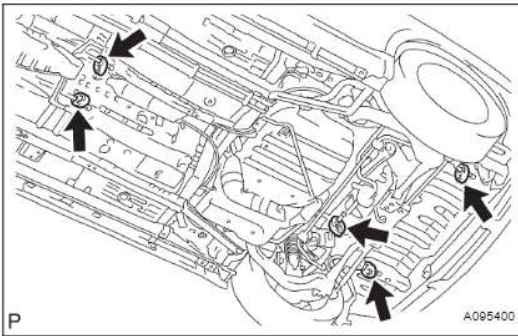


6. **REMOVE FRONT EXHAUST PIPE ASSEMBLY**

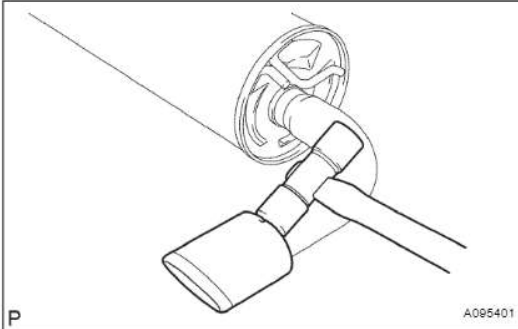
(a) Remove the 2 bolts, 2 compression springs and front exhaust pipe.
 (b) Remove the gasket from the manifold.



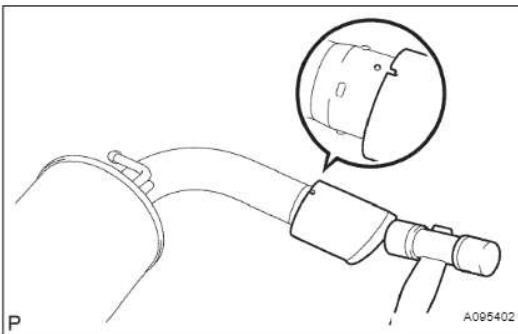
EX

2AZ-FE EXHAUST – EXHAUST PIPE**EX-3****7. REMOVE EXHAUST PIPE SUPPORT**

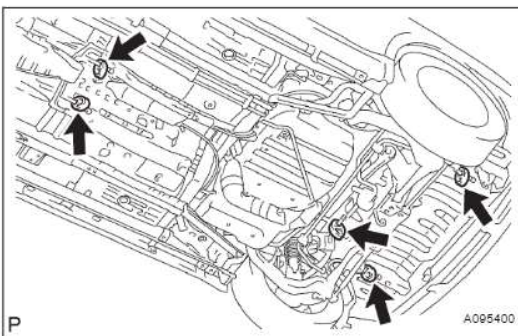
- (a) Remove the 5 exhaust pipe supports from the body.

**DISASSEMBLY****1. REMOVE TAILPIPE BAFFLE SUB-ASSEMBLY**

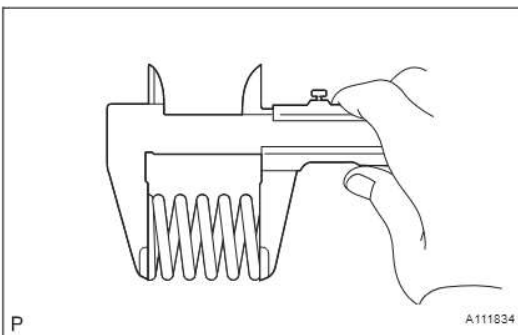
- (a) Using a plastic-faced hammer, uniformly tap out the baffle.

**REASSEMBLY****1. INSTALL TAILPIPE BAFFLE SUB-ASSEMBLY**

- (a) Align the baffle with the protruding part of the tailpipe as shown in the illustration.
 (b) Using a plastic-faced hammer, uniformly tap the baffle onto the tailpipe.

**INSTALLATION****1. INSTALL EXHAUST PIPE SUPPORT**

- (a) Install the 5 exhaust pipe supports to the body.

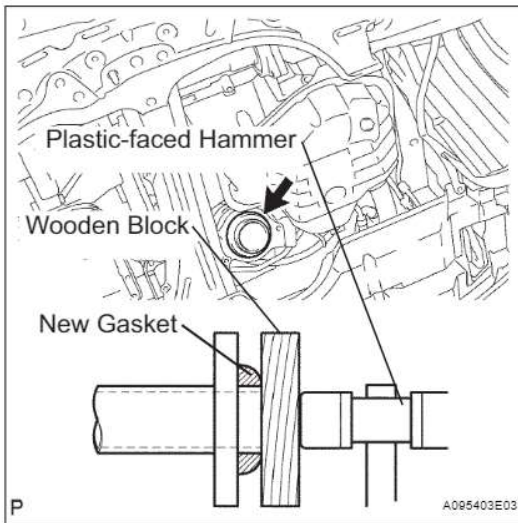
**2. INSTALL FRONT EXHAUST PIPE ASSEMBLY**

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

EX

EX-4

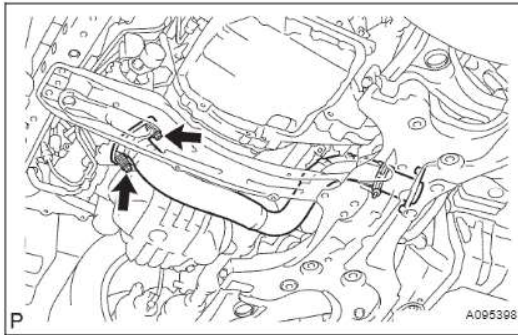
2AZ-FE EXHAUST – EXHAUST PIPE



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

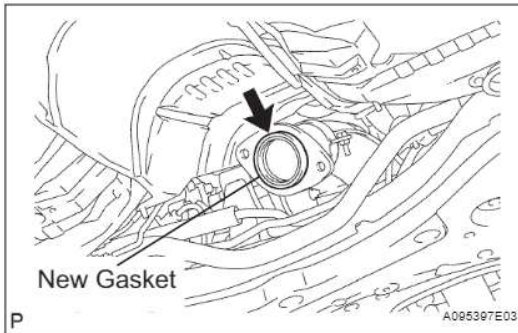
NOTICE:

- Make sure that the gasket is in the correct direction when installing.
- Do not reuse a removed gasket.
- Never push the gasket into the exhaust manifold by installing the front exhaust pipe onto the exhaust manifold.

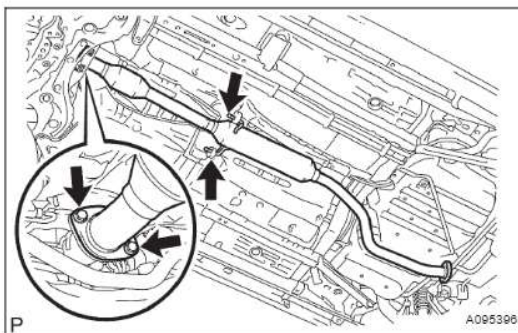


- (c) Install the front exhaust pipe with the 2 compression springs and 2 bolts.

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

**3. INSTALL CENTER EXHAUST PIPE ASSEMBLY**

- (a) Install a new gasket onto the front exhaust pipe.



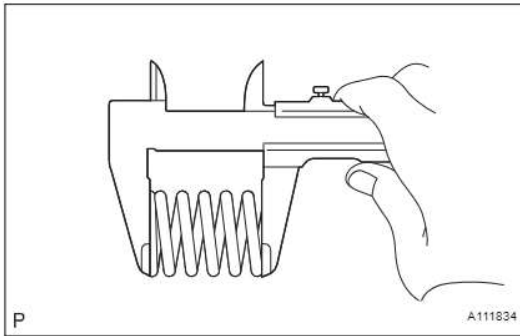
- (b) Install the exhaust pipe center onto the 2 exhaust pipe supports.

- (c) Install the 2 bolts.

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

2AZ-FE EXHAUST – EXHAUST PIPE

EX-5

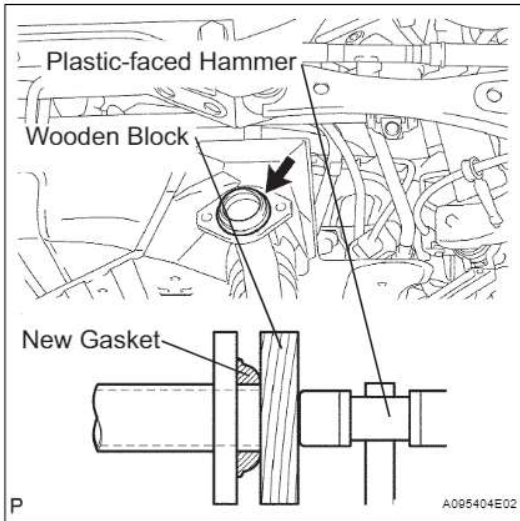


4. INSTALL TAILPIPE ASSEMBLY

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

Minimum free length:
38.5 mm (1.516 in.)

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

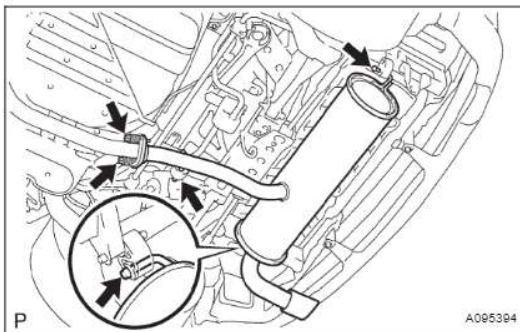


- (b) Using a wooden block and plastic-faced hammer, tap a new gasket until it is flush with the center exhaust pipe.

NOTICE:

- Make sure that the gasket is in the correct direction when installing.
- Do not reuse a removed gasket.
- Never push the gasket onto the exhaust pipe center by installing the exhaust pipe tail onto the exhaust pipe center.

EX



- (c) Install the tailpipe to the 3 exhaust pipe supports.

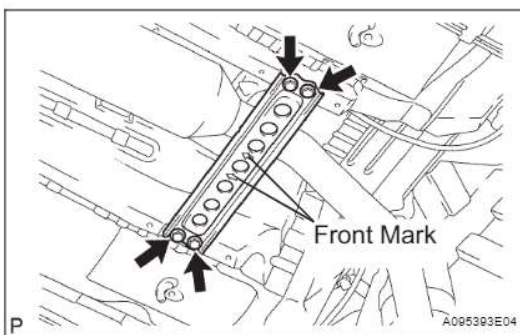
- (d) Install the 2 compression springs and 2 bolts.

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

5. INSTALL HEATED OXYGEN SENSOR (for Bank 1 Sensor 2) (See page [EC-21](#))

6. CONNECT CABLE TO BATTERY NEGATIVE TERMINAL

7. CHECK EXHAUST GAS LEAKS



8. INSTALL FRONT FLOOR PANEL BRACE

- (a) Install the front floor panel brace with the 4 bolts.

Torque: 29.6 N*m (300 kgf*cm, 22 ft.*lbf)

NOTICE:

Make sure that the front floor panel brace is at the correct direction when installing.

9. PERFORM INITIALIZATION

- (a) Perform initialization (see page [IN-23](#)).

NOTICE:

Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.