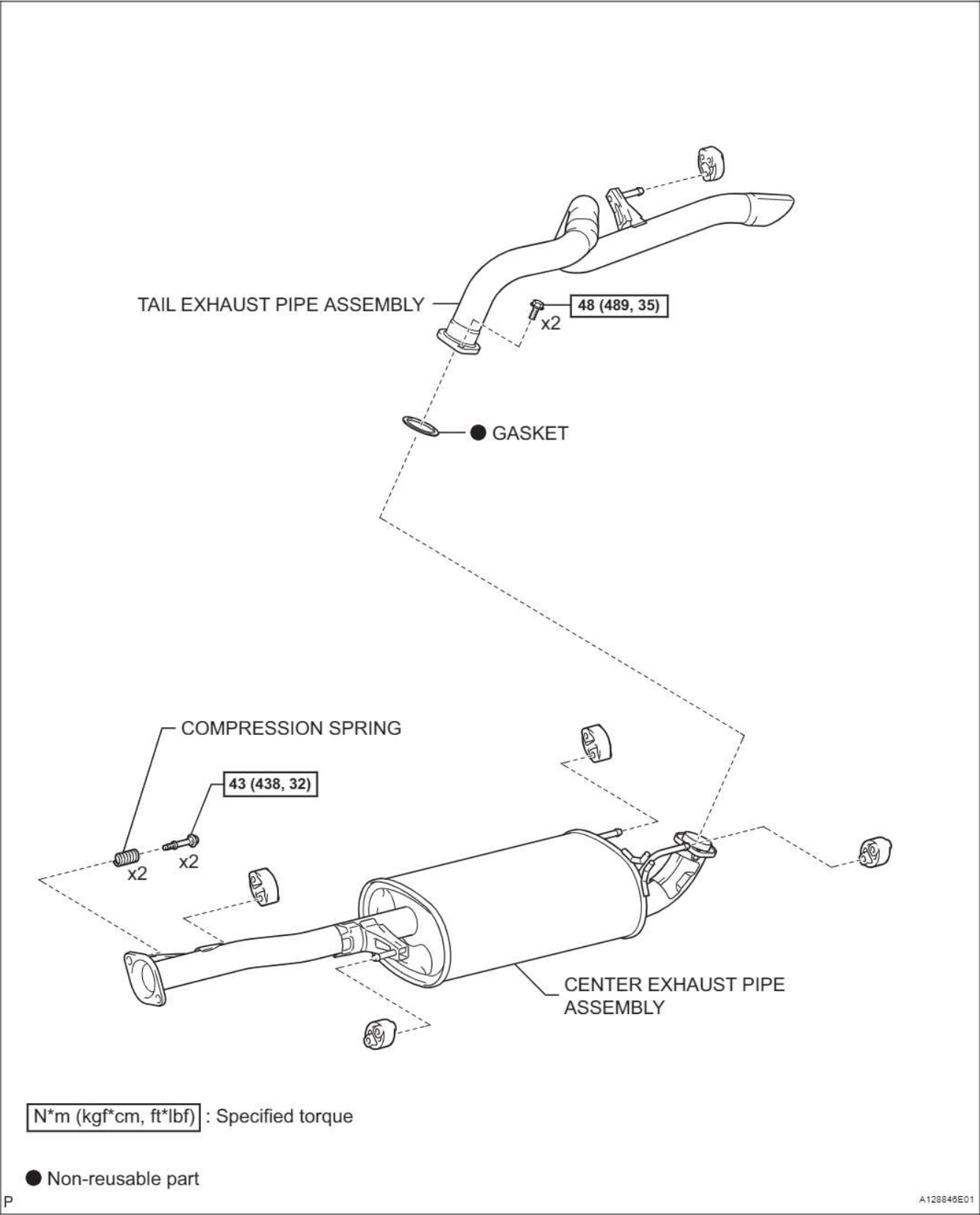
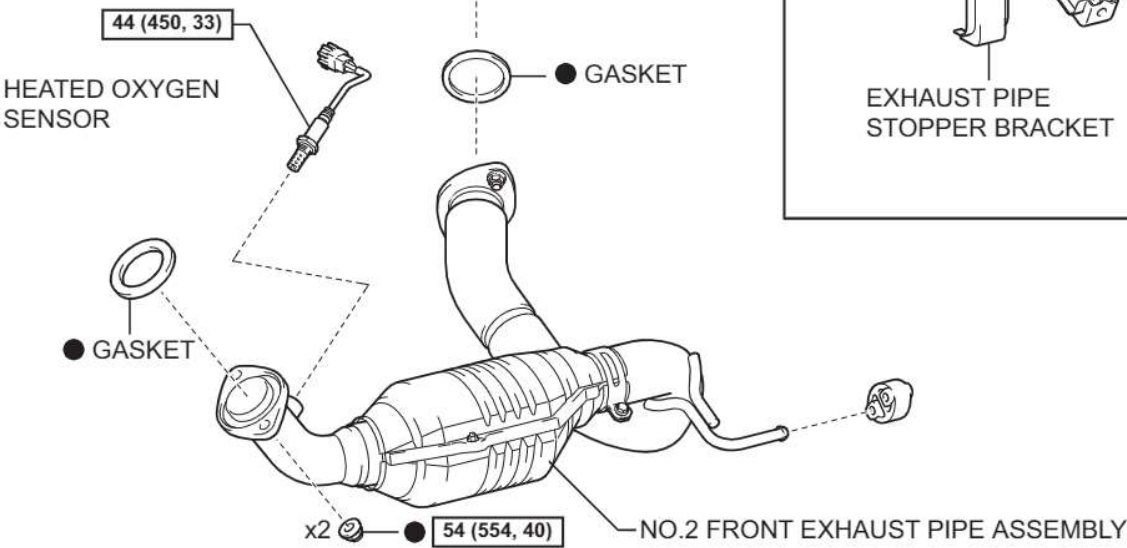
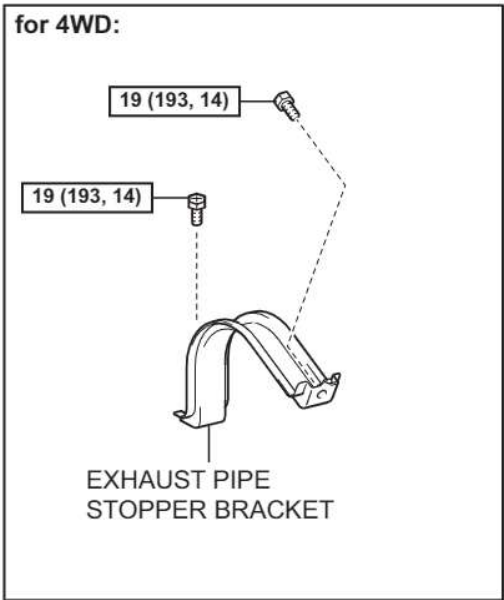
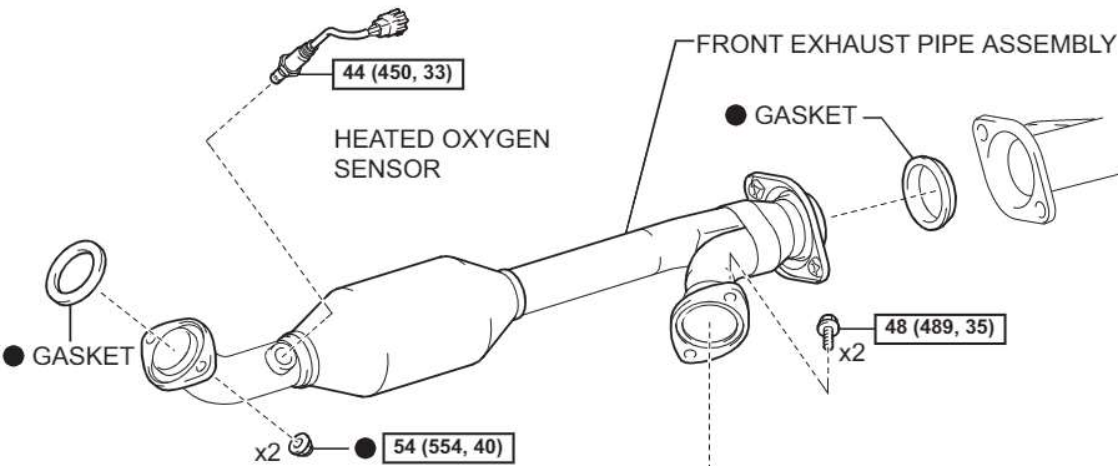


EXHAUST PIPE
COMPONENTS



EX-2

1GR-FE EXHAUST – EXHAUST PIPE



[N*m (kgf*cm, ft*lb)] : Specified torque

● Non-reusable part

P

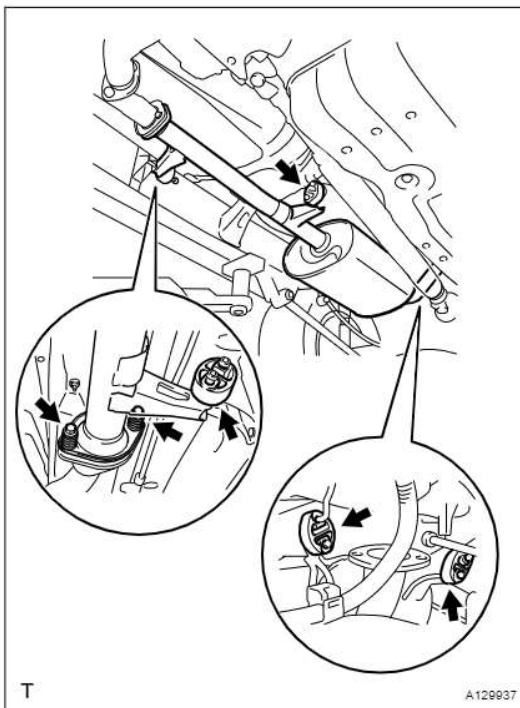
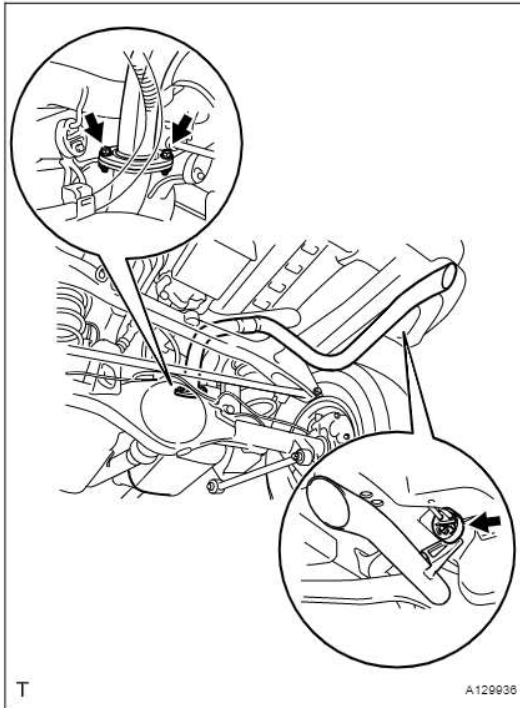
A128847E01

1GR-FE EXHAUST – EXHAUST PIPE

EX-3

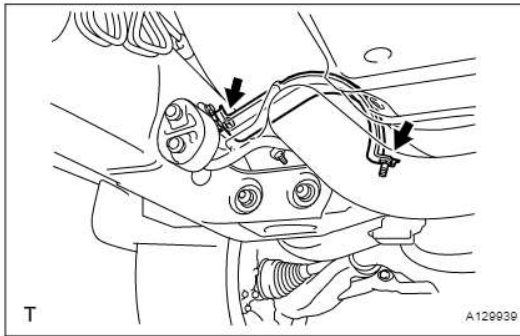
REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE HEATED OXYGEN SENSOR** (See page [EC-24](#))
3. **REMOVE TAIL EXHAUST PIPE ASSEMBLY**
 - (a) Remove the 2 bolts and separate the exhaust pipe support, then remove the tail exhaust pipe.

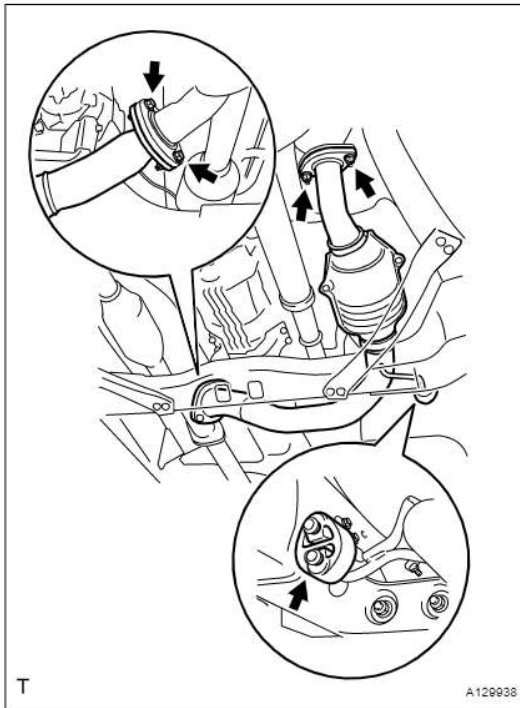


4. **REMOVE CENTER EXHAUST PIPE ASSEMBLY**
 - (a) Remove the 2 bolts and 2 compression springs, then separate the center exhaust pipe.
 - (b) Separate the 4 exhaust pipe supports from the center exhaust pipe, then remove the center exhaust pipe.

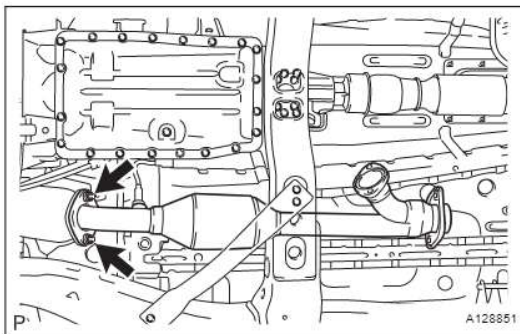
EX

EX-4**1GR-FE EXHAUST – EXHAUST PIPE****5. REMOVE NO. 2 FRONT EXHAUST PIPE ASSEMBLY**

- (a) Remove the 2 bolts, then remove the exhaust pipe stopper bracket. (for 4WD)



- (b) Remove the 2 bolts and 2 nuts and separate the exhaust pipe support, then remove the No. 2 front exhaust pipe.

**6. REMOVE FRONT EXHAUST PIPE ASSEMBLY**

- (a) Remove the 2 nuts, then remove the front exhaust pipe.
- (b) Remove the front exhaust pipe gasket.

EX

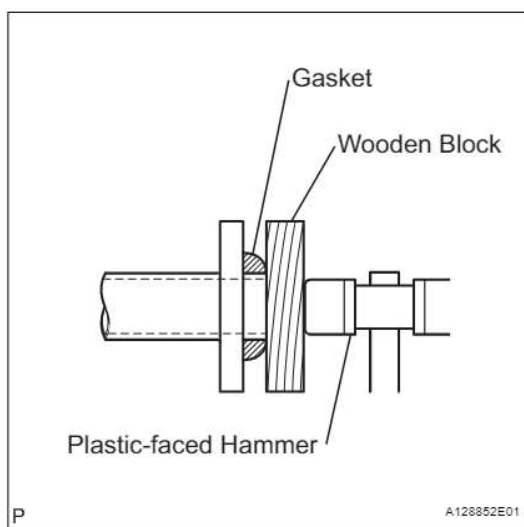
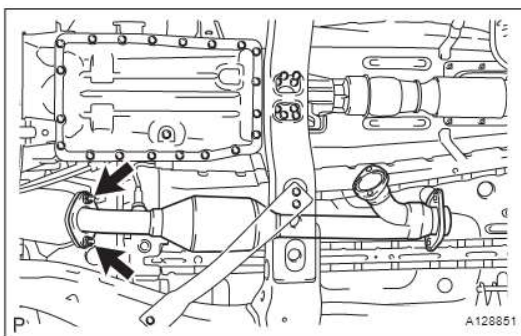
1GR-FE EXHAUST – EXHAUST PIPE

EX-5

INSTALLATION

1. INSTALL FRONT EXHAUST PIPE ASSEMBLY

- (a) Install a new gasket onto the exhaust manifold RH.
- (b) Install the exhaust front pipe with the new 2 nuts.
Torque: 54 N*m (554 kgf*cm, 40 ft.*lbf)



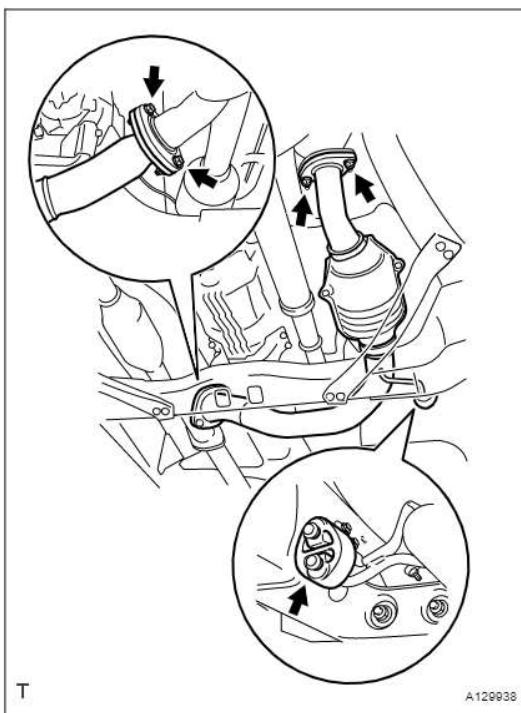
- (c) Install a new gasket onto the front exhaust pipe.
 - (1) Using a wooden block and plastic-faced hammer, tap in a new gasket until it is flush with the front exhaust pipe end.

NOTICE:

- Make sure that the gasket is in the correct direction when installing.
- Do not reuse the removed gasket.

2. INSTALL NO. 2 FRONT EXHAUST PIPE ASSEMBLY

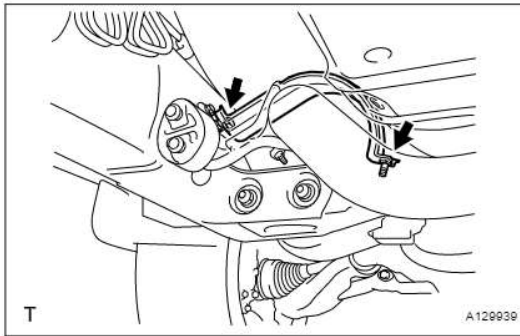
- (a) Install a new gasket onto the exhaust manifold LH.
- (b) Install a new gasket onto the No. 2 front exhaust pipe.



- (c) Install the No. 2 front exhaust pipe with the 2 new nuts and 2 bolts and exhaust pipe support.

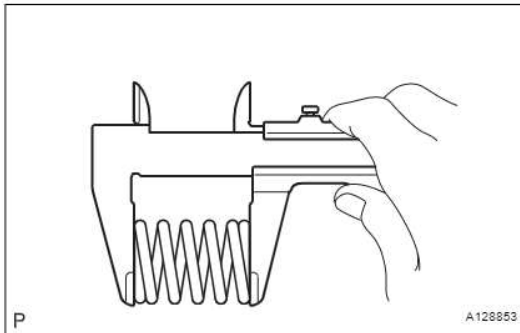
Torque: Nut**54 N*m (550 kgf*cm, 40 ft.*lbf)****Bolt****48 N*m (489 kgf*cm, 35 ft.*lbf)**

EX

EX-6**1GR-FE EXHAUST – EXHAUST PIPE**

- (d) Install the exhaust pipe stopper bracket with the 2 bolts (for 4WD).

Torque: 19 N*m (193 kgf*cm, 14 ft.*lbf)

**3. INSTALL CENTER EXHAUST PIPE ASSEMBLY**

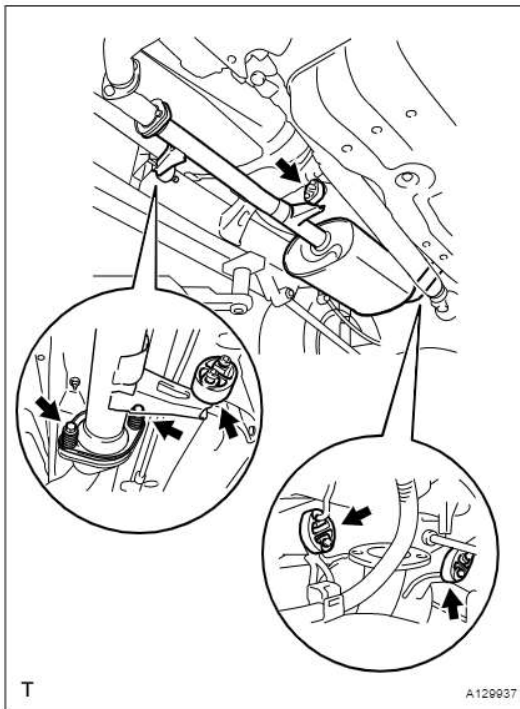
- (a) Check the free length.

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

Minimum:

40.5mm (1.594 in.)

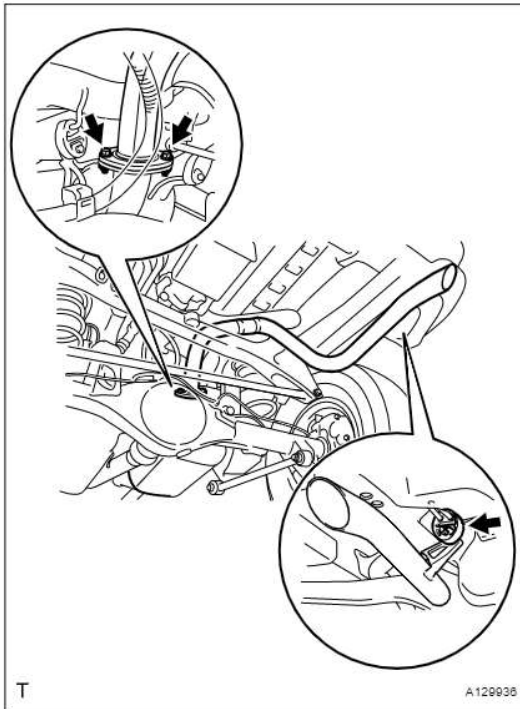
If the free length is less than the minimum, replace the compression spring.

EX

- (b) Install the center exhaust pipe onto the 4 exhaust pipe supports.

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

Torque: 43 N*m (438 kgf*cm, 32 ft.*lbf)

1GR-FE EXHAUST – EXHAUST PIPE**EX-7****4. INSTALL TAIL EXHAUST PIPE ASSEMBLY**

- (a) Install a new gasket onto the center exhaust pipe.
- (b) Install the tail exhaust pipe with the 2 bolts and exhaust pipe support.

Torque: 48 N*m (489 kgf*cm, 35 ft.*lbf)

5. INSTALL HEATED OXYGEN SENSOR (See page [EC-24](#))**6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

7. CHECK EXHAUST GAS LEAKAGE**EX**