

# EXHAUST

# *EX(SOHC)*

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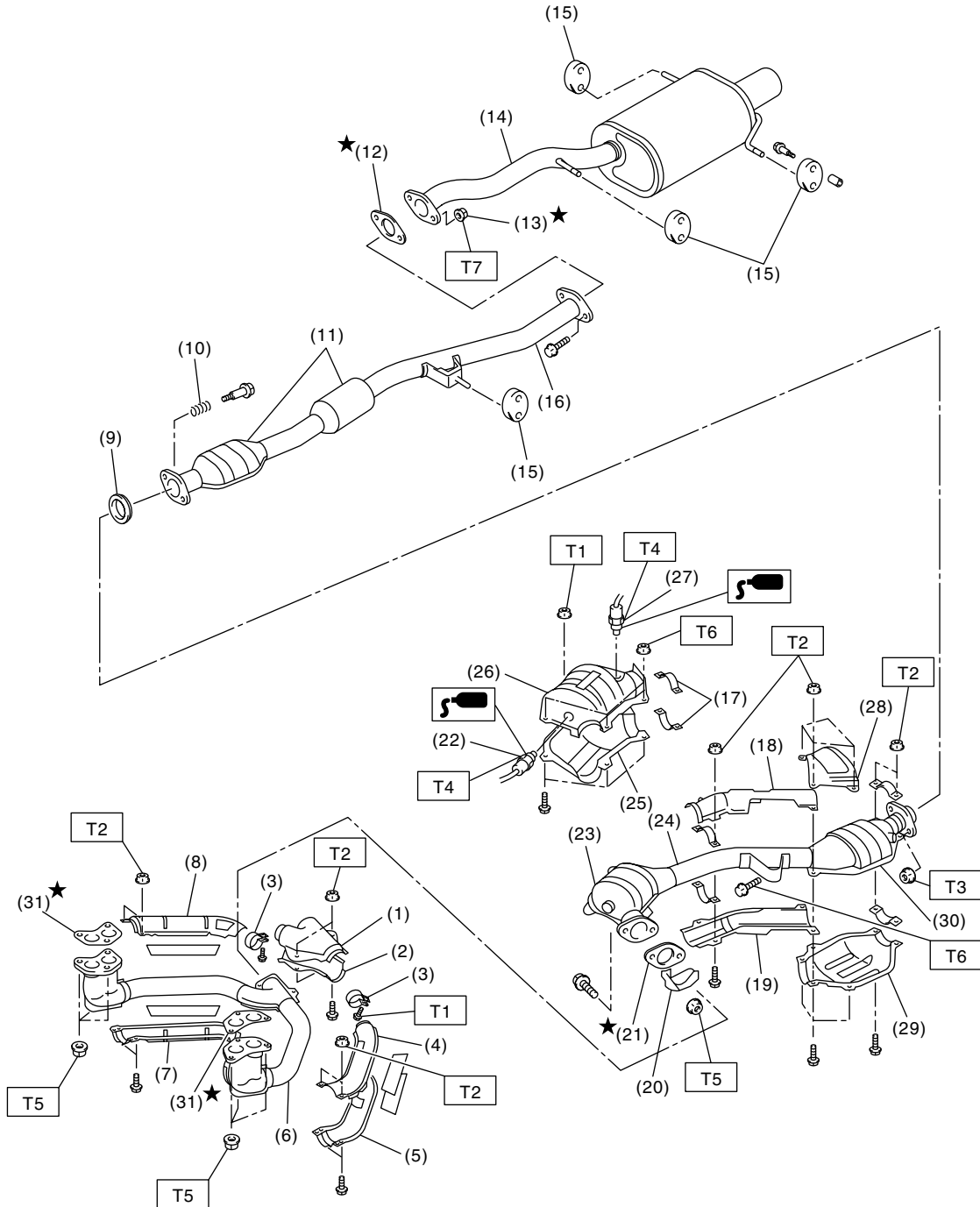
# GENERAL DESCRIPTION

EXHAUST

## 1. General Description

A: COMPONENT

1. 2000 CC MODEL



EX-00035

# GENERAL DESCRIPTION

EXHAUST

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(1) Upper front exhaust pipe cover CTR	(15) Cushion rubber	(28) Upper rear catalytic converter cover
(2) Lower front exhaust pipe cover CTR	(16) Rear exhaust pipe	(29) Lower rear catalytic converter cover
(3) Clamp	(17) Clamp	(30) Rear catalytic converter
(4) Upper front exhaust pipe cover LH	(18) Upper center exhaust pipe cover	(31) Gasket
(5) Lower front exhaust pipe cover LH	(19) Lower center exhaust pipe cover	
(6) Front exhaust pipe	(20) Protector	
(7) Lower front exhaust pipe cover RH	(21) Gasket	
(8) Upper front exhaust pipe cover RH	(22) Front oxygen (A/F) sensor	
(9) Gasket	(23) Front catalytic converter	
(10) Spring	(24) Center exhaust pipe	
(11) Chamber	(25) Lower front catalytic converter cover	
(12) Gasket	(26) Upper front catalytic converter cover	
(13) Self-locking nut	(27) Rear oxygen sensor	
(14) Muffler		

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**Tightening torque: N·m (kgf·m, ft·lb)**

**T1: 8 (0.8, 5.8)**

**T2: 13 (1.3, 9.4)**

**T3: 18 (1.8, 13.0)**

**T4: 21 (2.1, 15.2)**

**T5: 30 (3.1, 22.4)**

**T6: 35 (3.6, 26.0)**

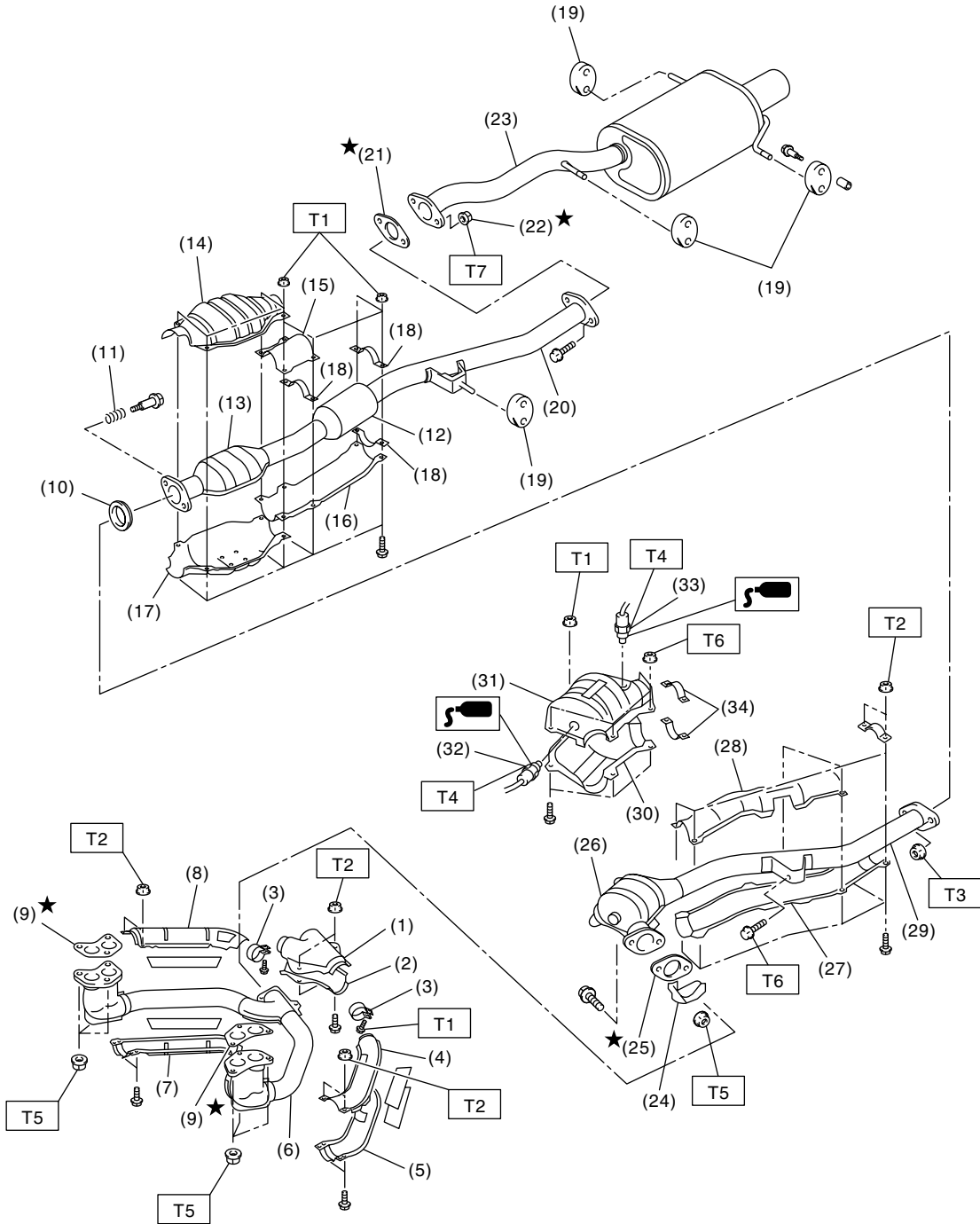
**T7: 48 (4.9, 35.4)**

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# GENERAL DESCRIPTION

EXHAUST

## 2. 2500 CC MODEL



EX-00072

# GENERAL DESCRIPTION

## EXHAUST

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(1) Upper front exhaust pipe cover CTR	(15) Upper rear exhaust cover	(30) Lower front catalytic converter cover
(2) Lower front exhaust pipe cover CTR	(16) Lower rear exhaust cover	(31) Upper front catalytic converter cover
(3) Clamp	(17) Lower rear catalytic converter cover	(32) Front oxygen (A/F) sensor
(4) Upper front exhaust pipe cover LH	(18) Clamp	(33) Rear oxygen sensor
(5) Lower front exhaust pipe cover LH	(19) Cushion rubber	(34) Clamp
(6) Front exhaust pipe	(20) Rear exhaust pipe	
(7) Lower front exhaust pipe cover RH	(21) Gasket	
(8) Upper front exhaust pipe cover RH	(22) Self-locking nut	
(9) Gasket	(23) Muffler	<hr/> <b>Tightening torque: N·m (kgf·m, ft·lb)</b>
(10) Gasket	(24) Protector	<b>T1: 8 (0.8, 5.8)</b>
(11) Spring	(25) Gasket	<b>T2: 13 (1.3, 9.4)</b>
(12) Chamber	(26) Front catalytic converter	<b>T3: 18 (1.8, 13.0)</b>
(13) Rear catalytic converter	(27) Lower center exhaust cover	<b>T4: 21 (2.1, 15.2)</b>
(14) Upper rear catalytic converter cover	(28) Upper center exhaust cover	<b>T5: 30 (3.1, 22.4)</b>
	(29) Center exhaust pipe	<b>T6: 35 (3.6, 26.0)</b>
		<b>T7: 48 (4.9, 35.4)</b>

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## GENERAL DESCRIPTION

### EXHAUST

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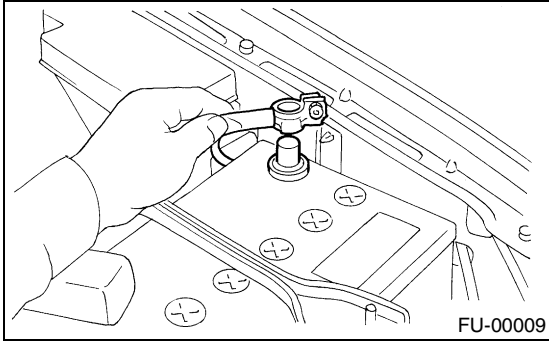
#### **B: CAUTION**

- Wear working clothing, including a cap, protective goggles, and protective shoes during operation.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust or dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly, and replacement.
- Be careful not to burn your hands, because each part on the vehicle is hot after running.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or safety stands at the specified points.
- Before disconnecting electrical connectors of sensors or units, be sure to disconnect the ground cable from battery.

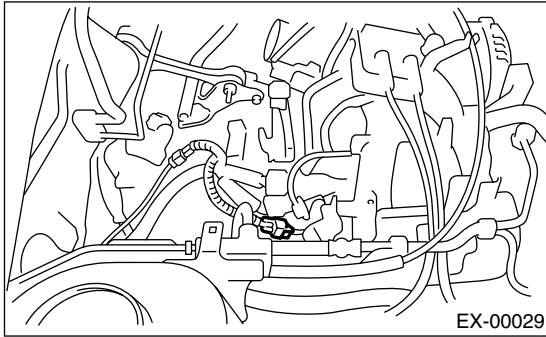
## 2. Front Exhaust Pipe

### A: REMOVAL

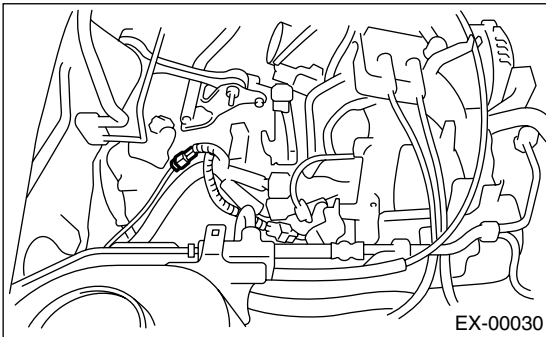
1) Disconnect the ground cable from battery.



2) Disconnect the front oxygen (A/F) sensor connector.



3) Disconnect the rear oxygen sensor connector.

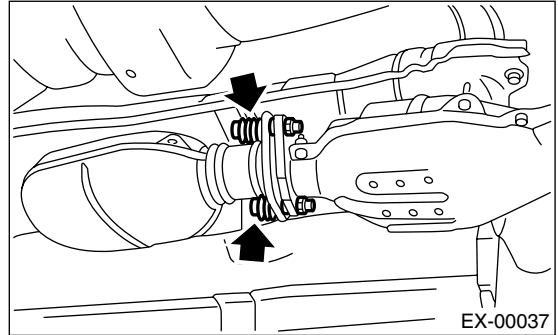


4) Lift-up the vehicle.

5) Separate the front and center exhaust pipe assembly from rear exhaust pipe.

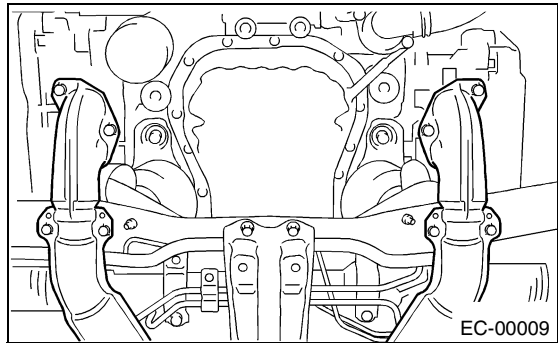
**CAUTION:**

Be careful, the exhaust pipe is hot.

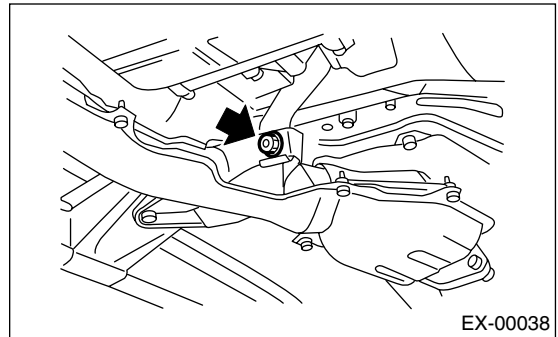


6) Remove the under cover.

7) Remove the nuts which hold front exhaust pipe onto cylinder heads.



8) Remove the bolt which installs front and center exhaust pipe assembly to hanger bracket.



# FRONT EXHAUST PIPE

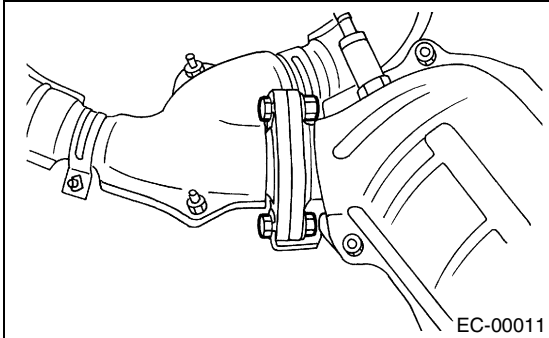
## EXHAUST

9) Remove the front and center exhaust pipe assembly from vehicle.

### CAUTION:

- Be careful not to let the front and center exhaust pipe assembly fall off when removing as it is quite heavy.
- After removing the front and center exhaust pipe assembly, do not apply excessive pulling force on the rear exhaust pipe.

10) Separate the front exhaust pipe from center exhaust pipe.



11) Remove the front oxygen (A/F) sensor and the rear oxygen sensor. <Ref. to FU(SOHC)-42, REMOVAL, Front Oxygen (A/F) Sensor.> and <Ref. to FU(SOHC)-44, REMOVAL, Rear Oxygen Sensor.>

## B: INSTALLATION

1) Install the front oxygen (A/F) sensor and the rear oxygen sensor. <Ref. to FU(SOHC)-42, INSTALLATION, Front Oxygen (A/F) Sensor.> and <Ref. to FU(SOHC)-44, INSTALLATION, Rear Oxygen Sensor.>

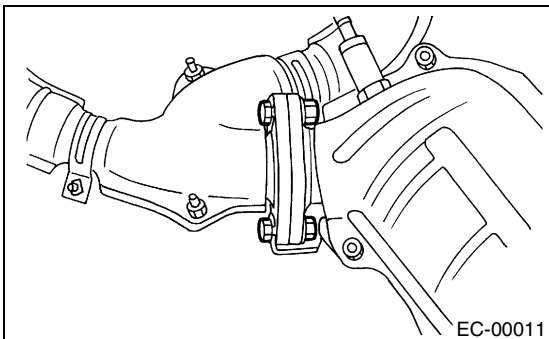
2) Install the front exhaust pipe to center exhaust pipe.

### NOTE:

Replace the gaskets with new ones.

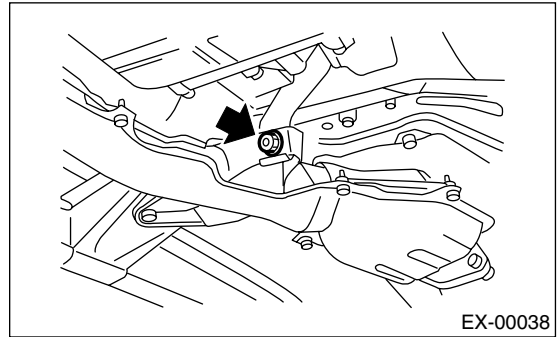
### Tightening torque:

**30 N·m (3.1 kgf-m, 22.4 ft-lb)**



3) Install the front and center exhaust pipe assembly to vehicle.

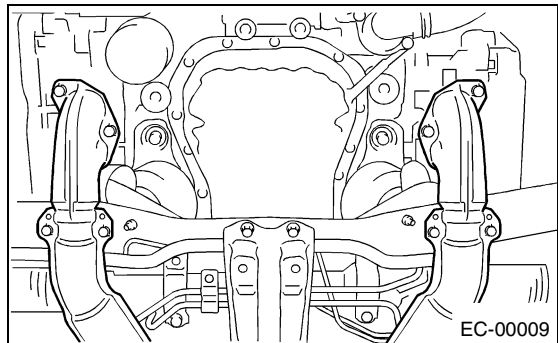
4) Temporarily tighten the bolt which installs front and center exhaust pipe assembly to hanger bracket.



5) Tighten the nuts which hold front exhaust pipe onto cylinder heads.

### Tightening torque:

**30 N·m (3.1 kgf-m, 22.4 ft-lb)**

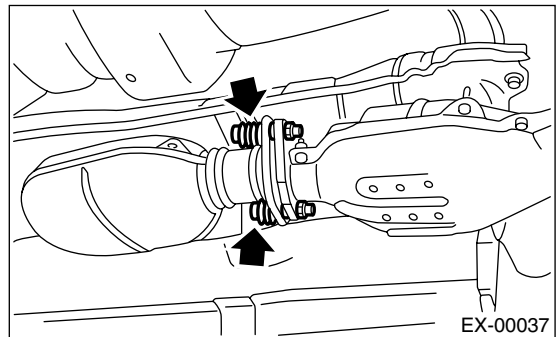


6) Install the under cover.

7) Tighten the bolts which install front and center exhaust pipe assembly to rear exhaust pipe.

### Tightening torque:

**18 N·m (1.8 kgf-m, 13.0 ft-lb)**

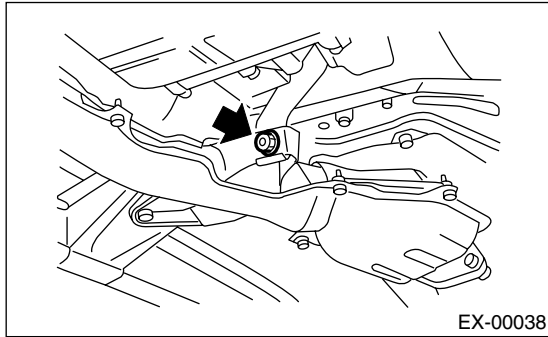




8) Tighten the bolt which holds front and center exhaust pipe assembly to hanger bracket.

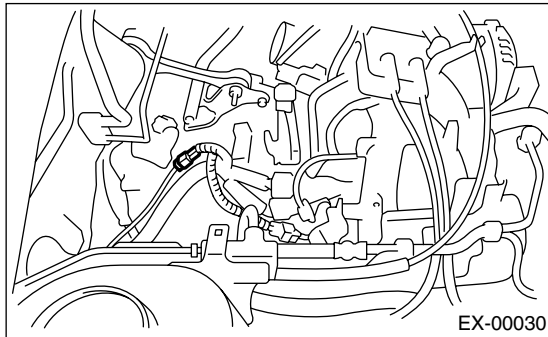
**Tightening torque:**

**35 N·m (3.6 kgf·m, 26.0 ft·lb)**

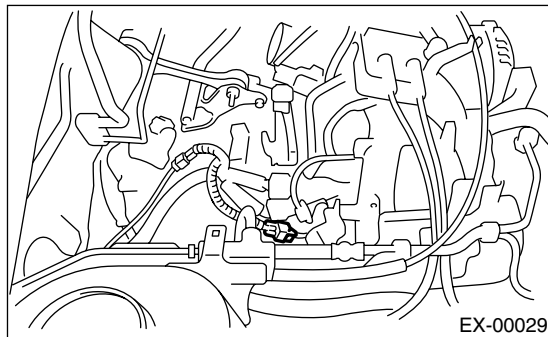


9) Lower the vehicle.

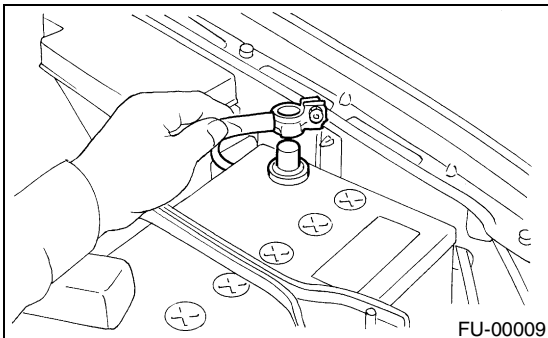
10) Connect the rear oxygen sensor connector.



11) Connect the front oxygen (A/F) sensor connector.



12) Connect the battery ground cable to battery.



## C: INSPECTION

1) Make sure there are no exhaust leaks from connections and welds.

2) Make sure there are no holes or rusting.

## 3. Center Exhaust Pipe

### A: REMOVAL

After removing the center and front exhaust pipes as one unit, separate them. Refer to the procedure for removing the front exhaust pipe. <Ref. to EX(SOHC)-7, REMOVAL, Front Exhaust Pipe.>

### B: INSTALLATION

Install the center exhaust pipe and front exhaust pipe as one unit. Refer to the procedure for installing the front exhaust pipe. <Ref. to EX(SOHC)-8, INSTALLATION, Front Exhaust Pipe.>

### C: INSPECTION

- 1) Make sure there are no exhaust leaks from connections and welds.
- 2) Make sure there are no holes or rusting.

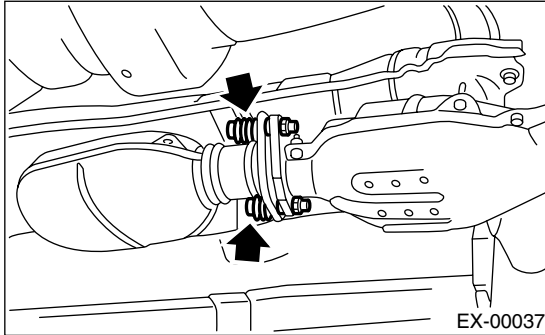
## 4. Rear Exhaust Pipe

### A: REMOVAL

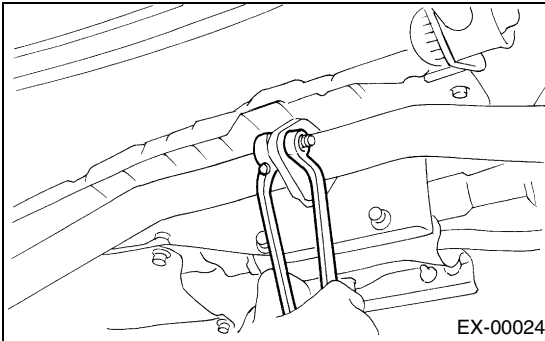
1) Separate the rear exhaust pipe from center exhaust pipe.

**CAUTION:**

**Be careful, the exhaust pipe is hot.**



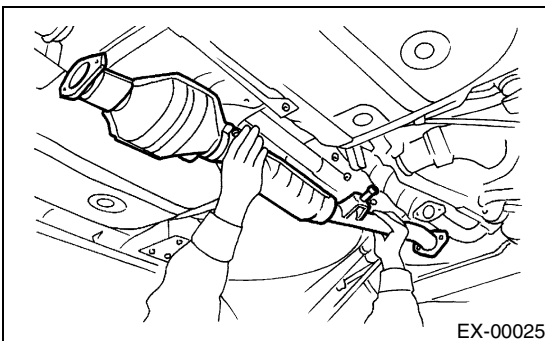
2) Separate the rear exhaust pipe from muffler.



3) Apply a coat of SUBARU CRC to mating area of the cushion rubbers in advance.

**SUBARU CRC (Part No. 004301003)**

4) Remove the rear exhaust pipe bracket from the cushion rubber.

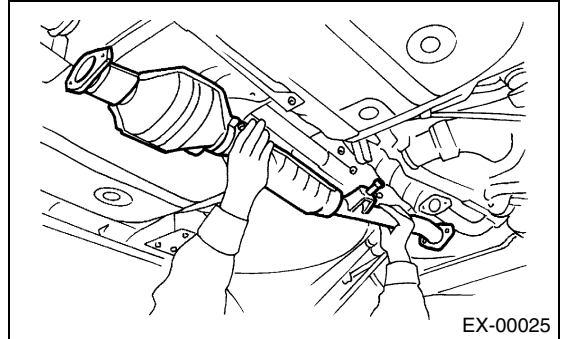


### B: INSTALLATION

1) Apply a coat of SUBARU CRC to mating area of the cushion rubbers in advance.

**SUBARU CRC (Part No. 004301003)**

2) Install the rear exhaust pipe bracket to cushion rubber.



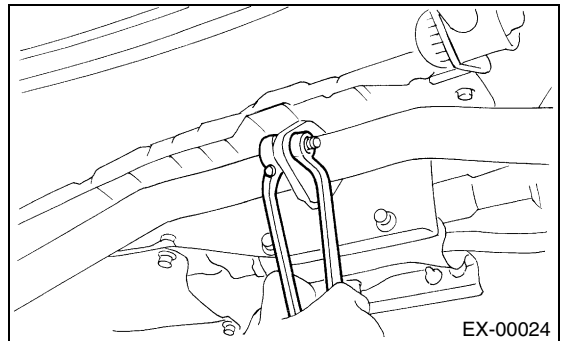
**NOTE:**

Replace the gaskets with new ones.

3) Install the rear exhaust pipe to muffler.

**Tightening torque:**

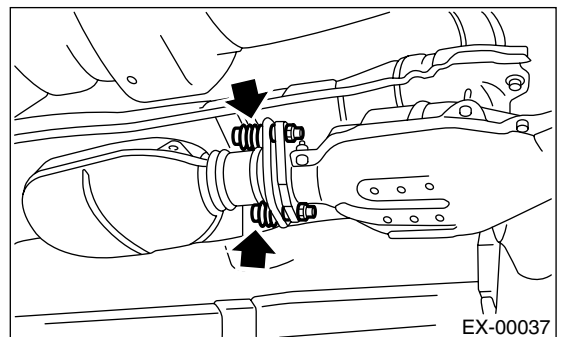
**48 N·m (4.9 kgf-m, 35.4 ft-lb)**



4) Install the rear exhaust pipe to center exhaust pipe.

**Tightening torque:**

**18 N·m (1.8 kgf-m, 13.0 ft-lb)**



## REAR EXHAUST PIPE

EXHAUST

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### **C: INSPECTION**

- 1) Make sure there are no exhaust leaks from connections and welds.
- 2) Make sure there are no holes or rusting.
- 3) Make sure the cushion rubber is not worn or cracked.

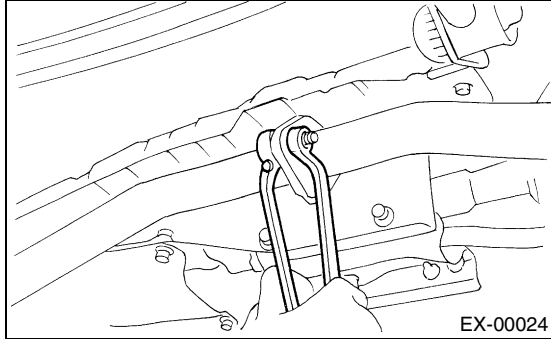
## 5. Muffler

### A: REMOVAL

1) Separate the muffler from rear exhaust pipe.

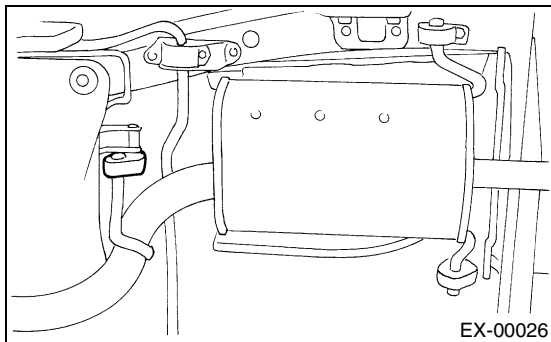
**CAUTION:**

**Be careful, the exhaust pipe is hot.**



2) Apply a coat of SUBARU CRC to mating area of the cushion rubbers in advance.

***SUBARU CRC (Part No. 004301003)***



3) Remove the front, right and left cushion rubber, and detach the muffler assembly.

### B: INSTALLATION

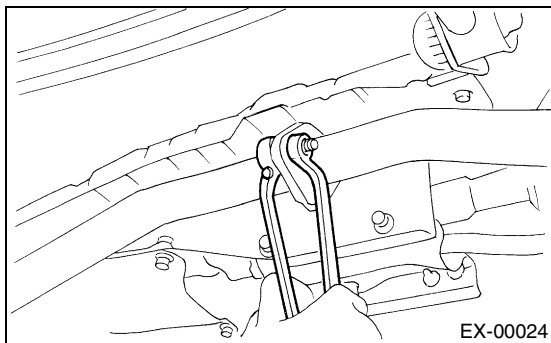
1) Install in the reverse order of removal.

**NOTE:**

Replace the gasket with a new one.

***Tightening torque:***

***48 N·m (4.9 kgf·m, 35.4 ft·lb)***



### C: INSPECTION

- 1) Make sure there are no exhaust leaks from connections and welds.
- 2) Make sure there are no holes or rusting.
- 3) Make sure the cushion rubber is not worn or cracked.

# MUFFLER

EXHAUST

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