

# EXHAUST

# *EX(SOHC)*

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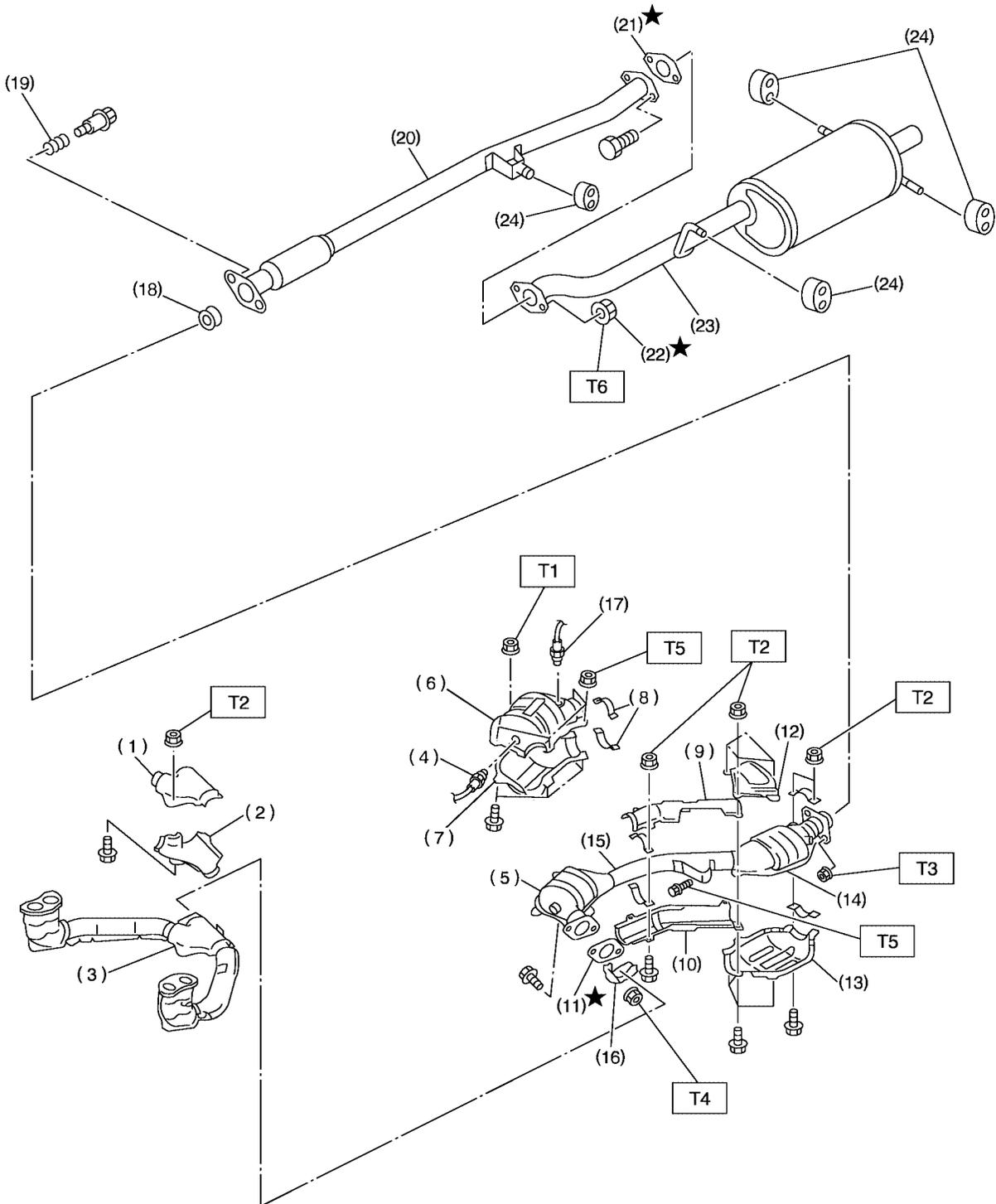


# GENERAL DESCRIPTION

Exhaust

## 1. General Description S152001

### A: COMPONENT S152001A05



S2M2132A

EX(SOHC)-2

# GENERAL DESCRIPTION

Exhaust

- (1) Upper front exhaust pipe cover  
CTR
- (2) Lower front exhaust pipe cover  
CTR
- (3) Front exhaust pipe
- (4) Front oxygen (A/F) sensor
- (5) Front catalytic converter
- (6) Upper front catalytic converter  
cover
- (7) Lower front catalytic converter  
cover
- (8) Clamp
- (9) Upper center exhaust pipe cover

- (10) Lower center exhaust pipe cover
- (11) Gasket
- (12) Upper rear catalytic converter  
cover
- (13) Lower rear catalytic converter  
cover
- (14) Rear catalytic converter
- (15) Center exhaust pipe
- (16) Protector
- (17) Rear oxygen sensor
- (18) Gasket
- (19) Spring
- (20) Rear exhaust pipe

- (21) Gasket
- (22) Self-lock nut
- (23) Muffler
- (24) Cushion rubber

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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: 30 (3.1, 22.4)**

**T5: 35 (3.6, 26.0)**

**T6: 48 (4.9, 35.4)**

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## GENERAL DESCRIPTION

Exhaust

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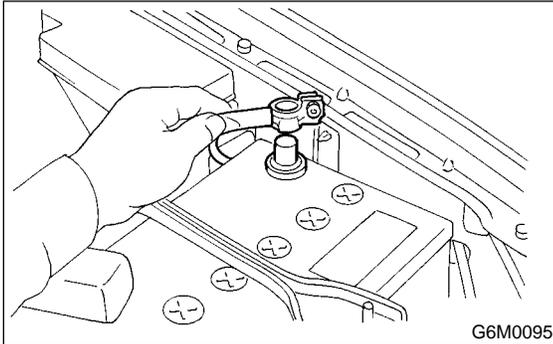
### **B: CAUTION** S152001A03

- 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 negative terminal from battery.

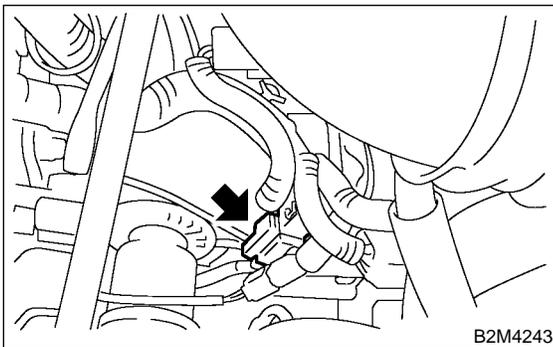
## 2. Front Exhaust Pipe S152065

### A: REMOVAL S152065A18

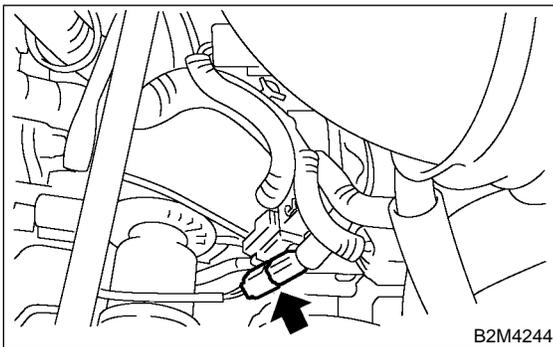
- 1) Disconnect battery ground cable.



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



- 3) Disconnect rear oxygen sensor connector.

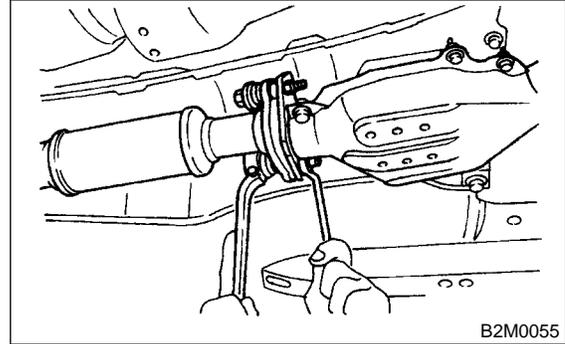


- 4) Lift-up the vehicle.
- 5) Remove under cover. <Ref. EI-11, REMOVAL, Front Under Cover.>

- 6) Separate front and center exhaust pipe assembly from rear exhaust pipe.

**WARNING:**

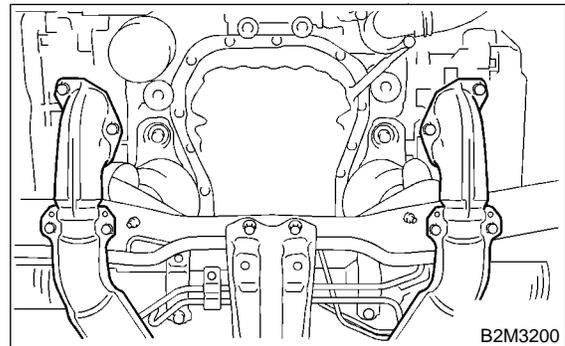
**Be careful, exhaust pipe is hot.**



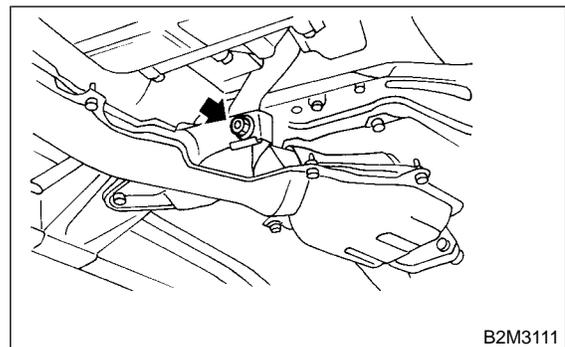
- 7) Remove bolts which hold front exhaust pipe onto cylinder heads.

**CAUTION:**

**Be careful not to pull down front and center exhaust pipe assembly.**



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



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

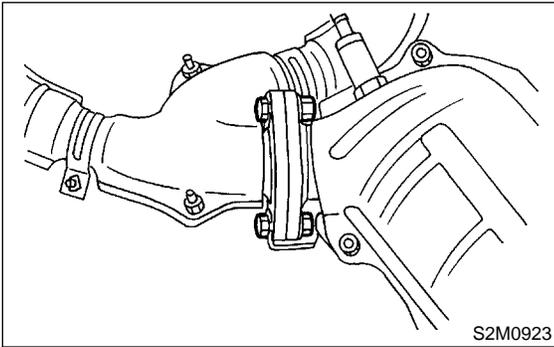
**CAUTION:**

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

# FRONT EXHAUST PIPE

Exhaust

10) Separate front exhaust pipe from center exhaust pipe.



## B: INSTALLATION

S152065A11

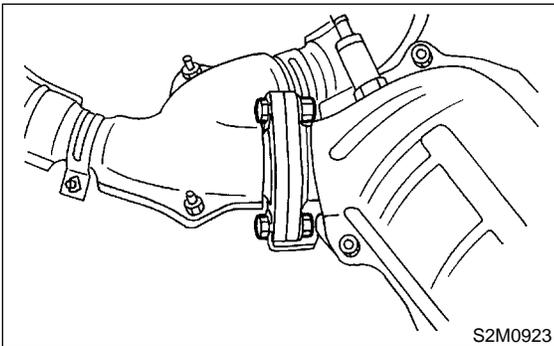
1) Install front exhaust pipe to center exhaust pipe.

### CAUTION:

Replace gaskets with new ones.

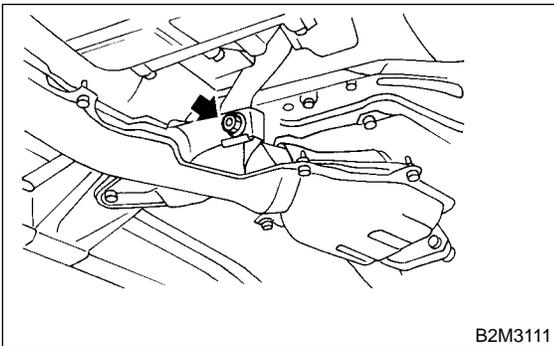
**Tightening torque:**

**30 N·m (3.1 kgf-m, 22.4 ft-lb)**



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

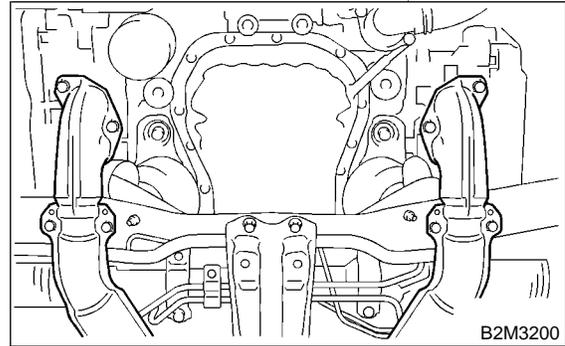
3) Temporarily tighten bolt which installs front and center exhaust pipe assembly to hanger bracket.



4) Tighten bolts which hold front exhaust pipe onto cylinder heads.

**Tightening torque:**

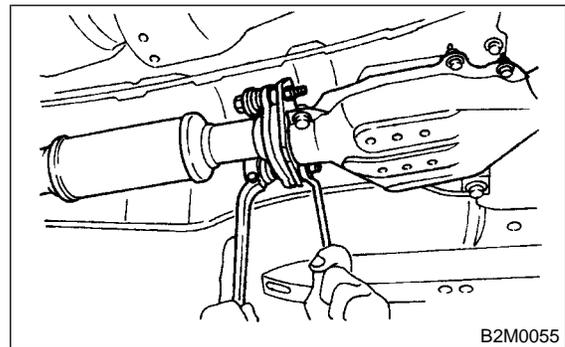
**30 N·m (3.1 kgf-m, 22.4 ft-lb)**



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

**Tightening torque:**

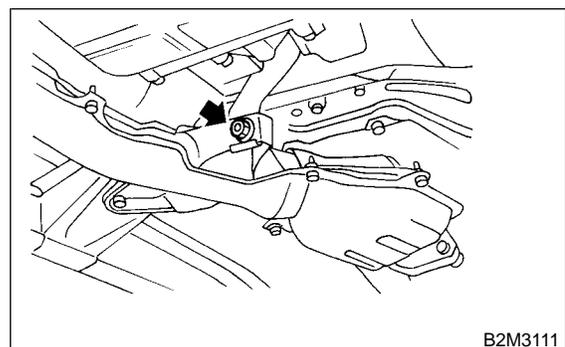
**18 N·m (1.8 kgf-m, 13.0 ft-lb)**



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

**Tightening torque:**

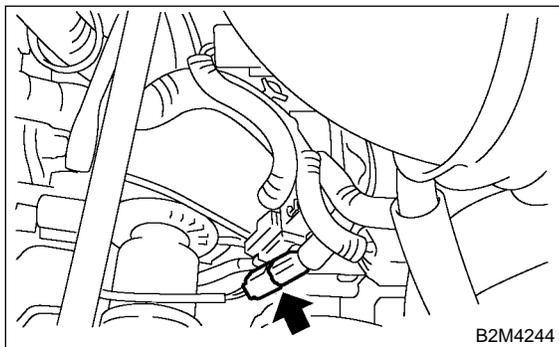
**35 N·m (3.6 kgf-m, 26.0 ft-lb)**



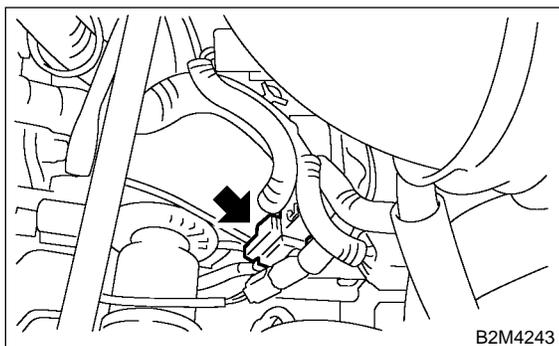
7) Install under cover. <Ref. EI-11, INSTALLATION, Front Under Cover.>

8) Lower the vehicle.

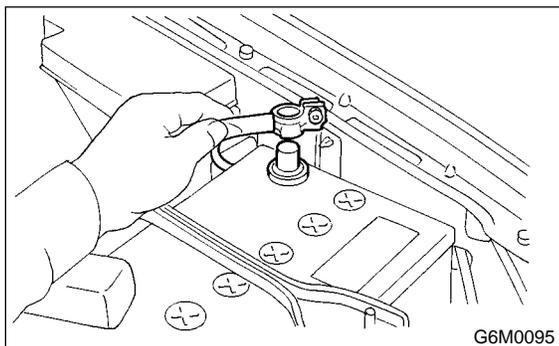
9) Connect rear oxygen sensor connector.



10) Connect front oxygen (A/F) sensor connector.



11) Connect battery ground cable.



## C: INSPECTION S152065A10

- 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 S152067

### A: REMOVAL S152067A18

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)-5 REMOVAL, Front Exhaust Pipe.>

### B: INSTALLATION S152067A11

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)-6 INSTALLATION, Front Exhaust Pipe.>

### C: INSPECTION S152067A10

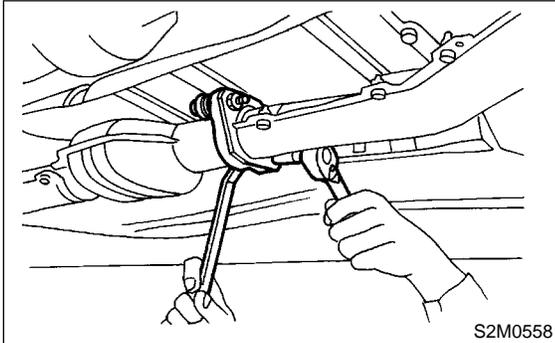
- 1) Make sure there are no exhaust leaks from connections and welds.
- 2) Make sure there are no holes or rusting.

## 4. Rear Exhaust Pipe S152068

### A: REMOVAL S152068A18

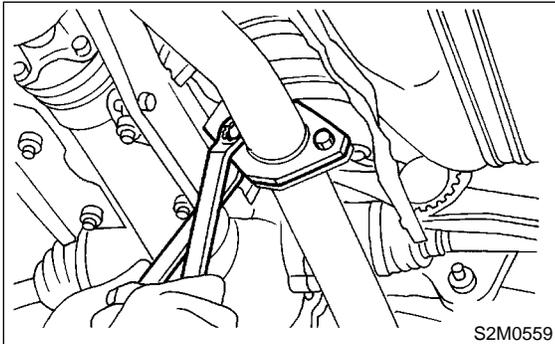
1) Separate rear exhaust pipe from center exhaust pipe.

**CAUTION:**  
Be careful, exhaust pipe is hot.



2) Separate rear exhaust pipe from muffler.

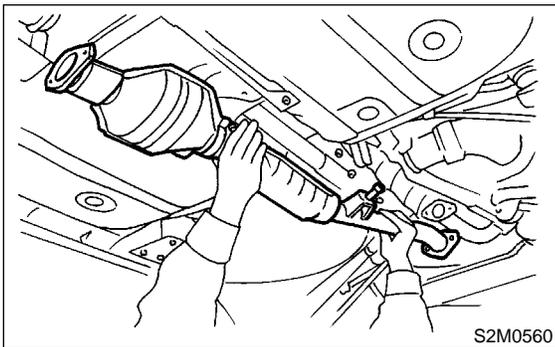
**CAUTION:**  
Be careful not to pull down rear exhaust pipe.



3) Remove rear exhaust pipe bracket from rubber cushion.

**NOTE:**  
To facilitate removal, apply a coat of SUBARU CRC to pipe bracket in advance.

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



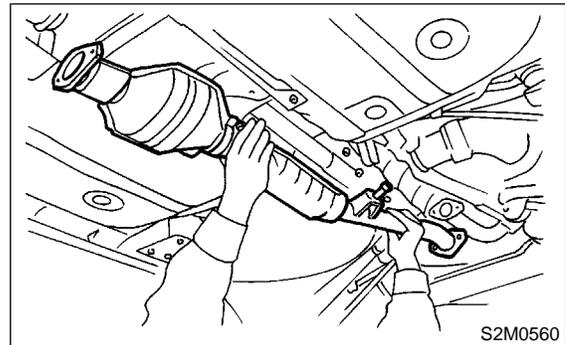
### B: INSTALLATION S152068A11

**CAUTION:**  
Replace gaskets with new ones.

1) Install rear exhaust pipe bracket to rubber cushion.

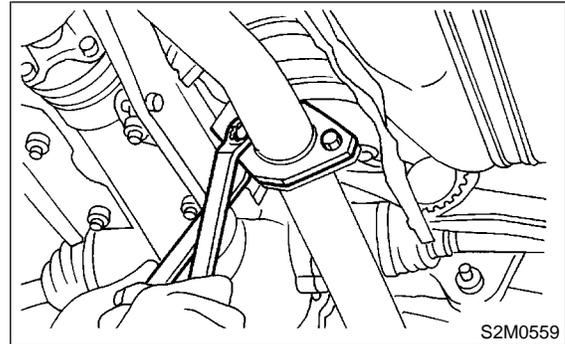
**NOTE:**  
To facilitate removal, apply a coat of SUBARU CRC to mating area of rubber cushion in advance.

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



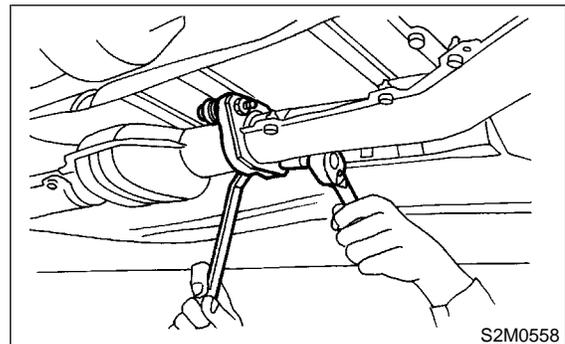
2) Install rear exhaust pipe to muffler.

**Tightening torque:**  
**48 N·m (4.9 kgf-m, 35.4 ft-lb)**



3) Install 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** S152068A10

- 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.

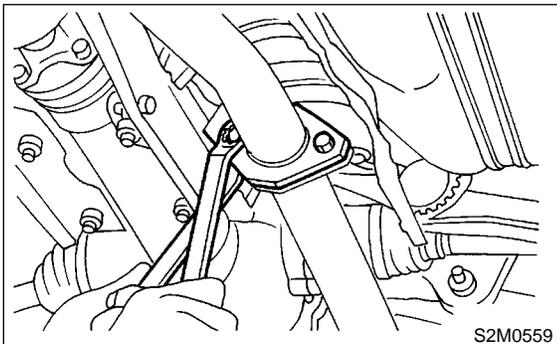
## 5. Muffler S152066

### A: REMOVAL S152066A18

1) Separate muffler from rear exhaust pipe.

**CAUTION:**

Be careful, exhaust pipe is hot.



2) Remove left and right rubber cushions.

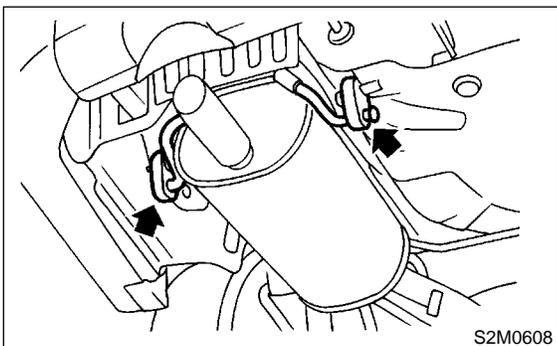
**CAUTION:**

Be careful not to drop the muffler during removal.

**NOTE:**

To facilitate removal, apply a coat of SUBARU CRC to mating area of rubber cushions in advance.

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

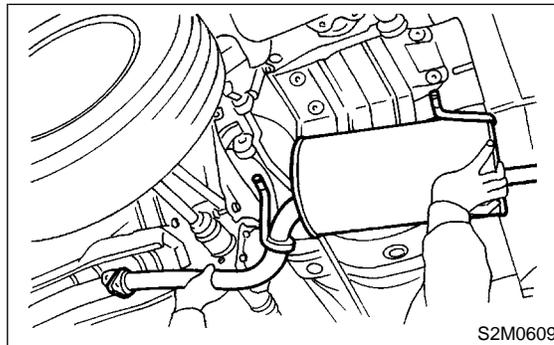


3) Remove front rubber cushion, and detach muffler assembly.

**NOTE:**

To facilitate removal, apply a coat of SUBARU CRC to mating area of rubber cushion in advance.

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



### B: INSTALLATION S152066A11

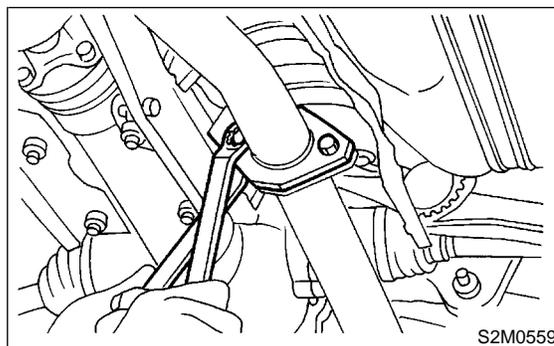
Install in the reverse order of removal.

**CAUTION:**

Replace gasket with a new one.

**Tightening torque:**

**48 N·m (4.9 kgf·m, 35.4 ft·lb)**



### C: INSPECTION S152066A10

- 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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**MEMO:**