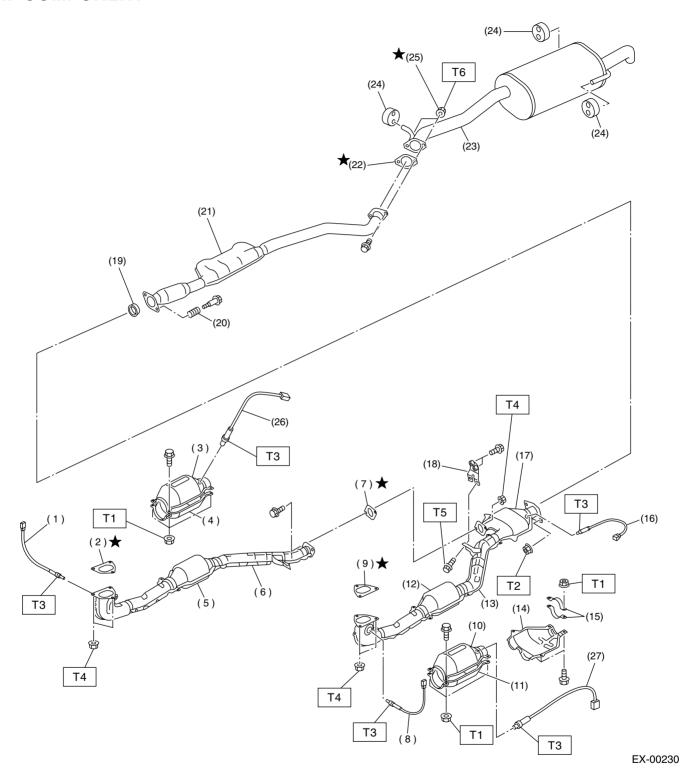
EXHAUST

EX(H4SO U5)

		Page
1.	General Description	2
2.	Front Exhaust Pipe	5
	Rear Exhaust Pipe	
	Muffler	

1. General Description

A: COMPONENT



- (1) Front oxygen (A/F) sensor (RH)
- (2) Gasket
- (3) Upper front catalyst cover (RH)
- (4) Lower front catalyst cover (RH)
- (5) Front catalyst converter (RH)
- (6) Front exhaust pipe (RH)
- (7) Gasket
- (8) Front oxygen (A/F) sensor (LH)
- (9) Gasket
- (10) Upper front catalyst cover (LH)
- (11) Lower front catalyst cover (LH)

- (12) Front catalyst (LH)
- (13) Front exhaust pipe (LH)
- (14) Lower rear catalyst cover
- (15) Clamp
- (16) Rear oxygen sensor
- (17) Rear catalyst
- (18) Bracket
- (19) Gasket
- (20) Spring
- (21) Rear exhaust pipe
- (22) Gasket

- (23) Muffler
- (24) Cushion rubber
- (25) Self-locking nut
- (26) Front oxygen sensor (RH)
- (27) Front oxygen sensor (LH)

Tightening torque: N·m (kgf-m, ft-lb)

T1: 13 (1.3, 9.4)

T2: 18 (1.8, 13.0)

T3: 21 (2.1, 15)

T4: 30 (3.1, 22.4)

T5: 35 (3.6, 26.0)

T6: 48 (4.9, 35.4)

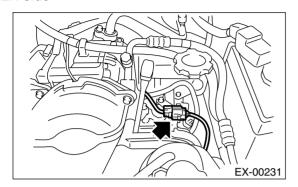
B: CAUTION

- 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 ground cable from battery.

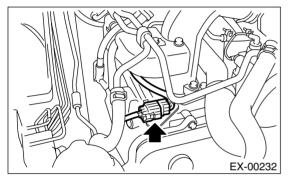
2. Front Exhaust Pipe

A: REMOVAL

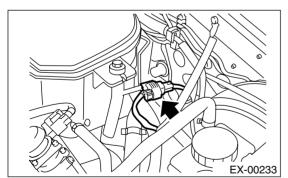
- 1) Disconnect ground cable from battery.
- 2) Disconnect front oxygen (A/F) sensor connector.
- LH side



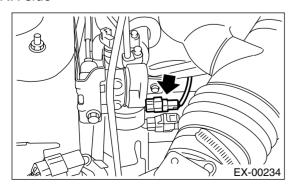
• RH side



- 3) Disconnect front oxygen sensor connector.
- LH side

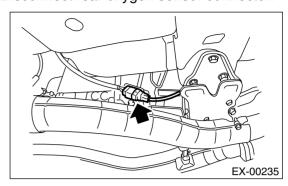


• RH side



4) Lift-up the vehicle.

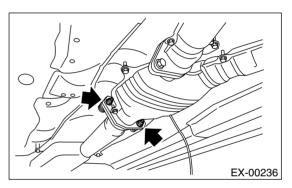
- 5) Remove under cover.
- 6) Disconnect rear oxygen sensor connector.



7) Separate front exhaust pipe assembly from rear exhaust pipe.

WARNING:

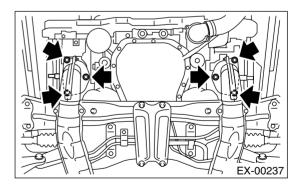
Be careful, exhaust pipe is hot.



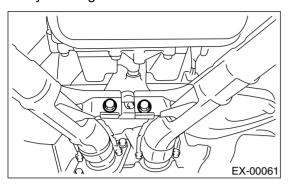
8) Remove nuts which hold front exhaust pipe onto cylinder heads.

CAUTION:

Be careful not to pull down front exhaust pipe assembly.



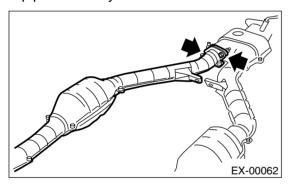
9) Remove bolt which secures front exhaust pipe assembly to hanger bracket.



10) Remove front exhaust pipe from the vehicle.

CAUTION:

- Disconnect front oxygen (A/F) sensor, front oxygen sensor and rear oxygen sensor harness from bracket.
- Be careful not to let front exhaust pipe assembly fall off when removing as it is quite heavy.
- After removing front exhaust assembly, do not apply excessive pulling force on rear exhaust pipe.
- 11) Separate front exhaust pipe (RH) from front exhaust pipe assembly.



12) Disconnect front oxygen (A/F) sensor, front oxygen sensor and rear oxygen sensor. <Ref. to FU(H4SO U5)-42, REMOVAL, Front Oxygen (A/F) Sensor.>, <Ref. to FU(H4SO U5)-45, REMOVAL, Front Oxygen Sensor.> and <Ref. to FU(H4SO U5)-48, REMOVAL, Rear Oxygen Sensor.>

B: INSTALLATION

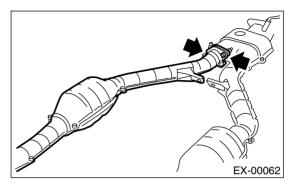
1) Install front oxygen (A/F) sensor, front oxygen sensor and rear oxygen sensor. <Ref. to FU(H4SO U5)-43, INSTALLATION, Front Oxygen (A/F) Sensor.>, <Ref. to FU(H4SO U5)-46, INSTALLATION, Front Oxygen Sensor.> and <Ref. to FU(H4SO U5)-48, INSTALLATION, Rear Oxygen Sensor.>

2) Install front exhaust pipe (RH) to front exhaust pipe assembly.

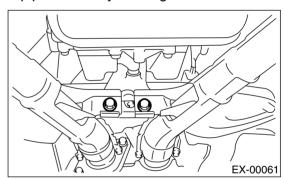
NOTF:

Replace gaskets with new ones.

Tightening torque: 30 N·m (3.1 kgf-m, 22.4 ft-lb)

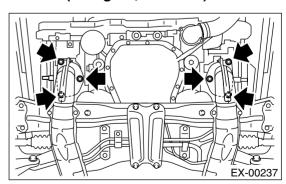


- 3) Install front exhaust pipe assembly to the vehicle.
- 4) Temporarily tighten bolt which installs front exhaust pipe assembly to hanger bracket.



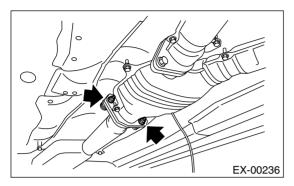
5) Tighten nuts which hold front exhaust pipe onto cylinder heads.

Tightening torque: 30 N⋅m (3.1 kgf-m, 22.4 ft-lb)



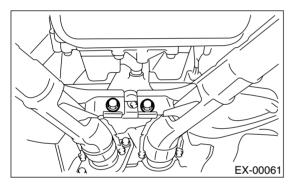
6) Tighten bolts which install front exhaust pipe to rear exhaust pipe.

Tightening torque: 18 N·m (1.8 kgf-m, 13.0 ft-lb)

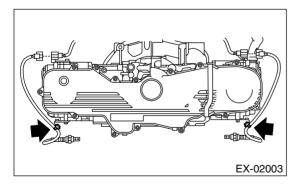


7) Tighten bolt which holds front exhaust pipe assembly to hanger bracket.

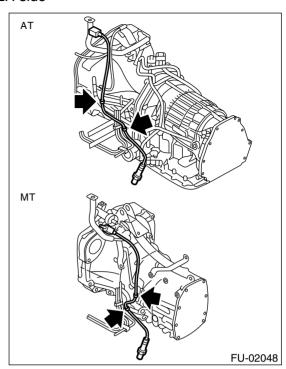
Tightening torque: 35 N·m (3.6 kgf-m, 26.0 ft-lb)



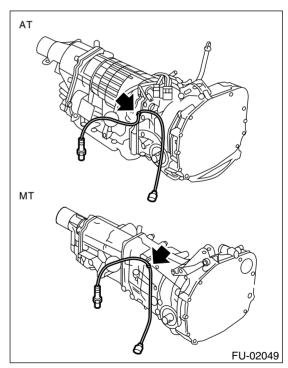
8) Install front oxygen (A/F) sensor harness to bracket.



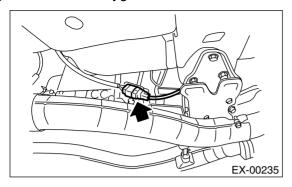
- 9) Install front oxygen sensor harness to bracket.
- LH side



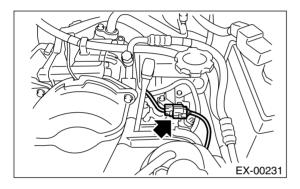
• RH side



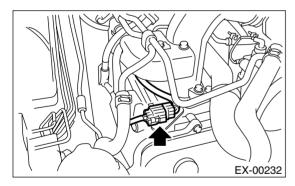
10) Connect rear oxygen sensor connector.



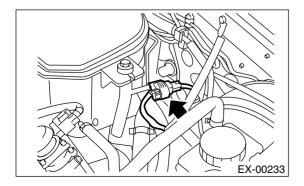
- 11) Install under cover.
- 12) Lower the vehicle.
- 13) Disconnect front oxygen (A/F) sensor connector.
- LH side



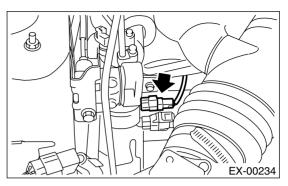
• RH side



- 14) Connect front oxygen sensor connector.
- LH side



• RH side



15) Install battery.

C: INSPECTION

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

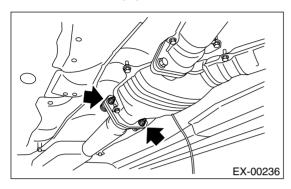
3. Rear Exhaust Pipe

A: REMOVAL

1) Separate rear exhaust pipe from front exhaust pipe.

CAUTION:

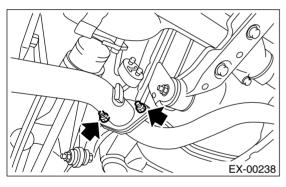
Be careful, exhaust pipe is hot.



2) Separate rear exhaust pipe from muffler.

CAUTION:

Be careful not to pull down rear exhaust pipe.



3) Remove rear exhaust pipe.

B: INSTALLATION

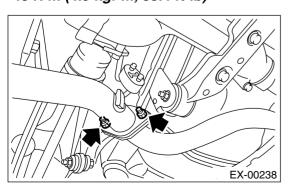
NOTE:

Replace gaskets and self-lock nut with new ones.

1) Install rear exhaust pipe to muffler.

Tightening torque:

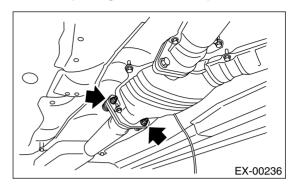
48 N·m (4.9 kgf-m, 35.4 ft-lb)



2) Install rear exhaust pipe to front exhaust pipe.

Tightening torque:

18 N·m (1.8 kgf-m, 13.0 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.

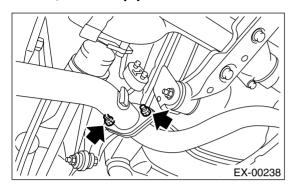
4. Muffler

A: REMOVAL

1) Separate muffler from rear exhaust pipe.

CAUTION:

Be careful, exhaust pipe is hot.



2) Remove left and right rubber cushions.

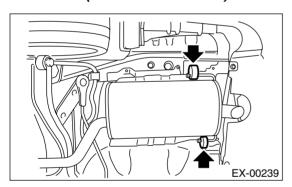
CAUTION:

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)

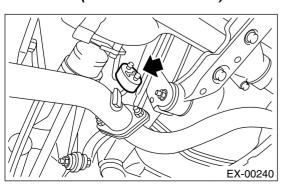


3) Remove front rubber cushion, and detach muffler assembly.

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

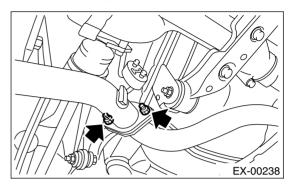
Install in the reverse order of removal.

NOTE:

Replace gasket and self-lock nut 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.