

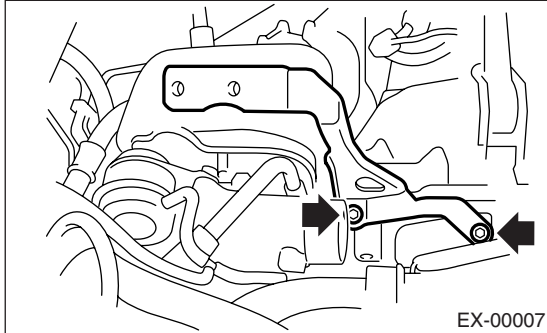
CENTER EXHAUST PIPE

EXHAUST

3. Center Exhaust Pipe

A: REMOVAL

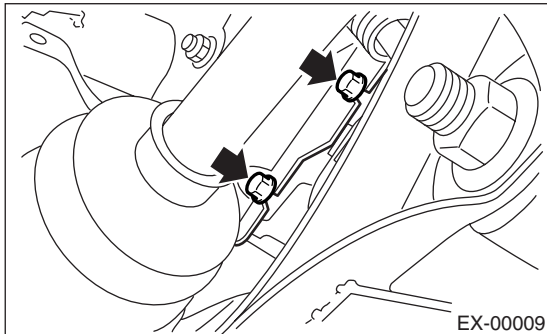
- 1) Set the vehicle on a lift.
- 2) Disconnect the ground cable from battery.
- 3) Remove the intercooler. <Ref. to IN(H4DOTC)-10, REMOVAL, Intercooler.>
- 4) Remove the intercooler bracket.



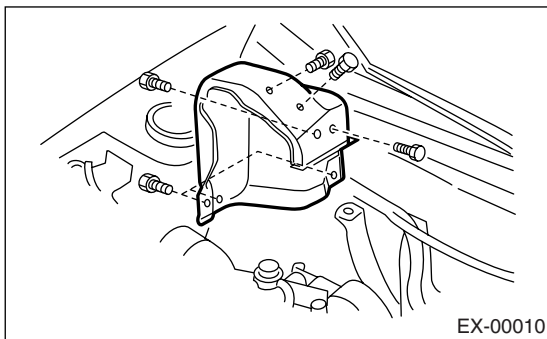
- 5) Lift-up the vehicle.
- 6) Remove the under cover.
- 7) Remove the bolts which install lower side of turbocharger upper cover.

CAUTION:

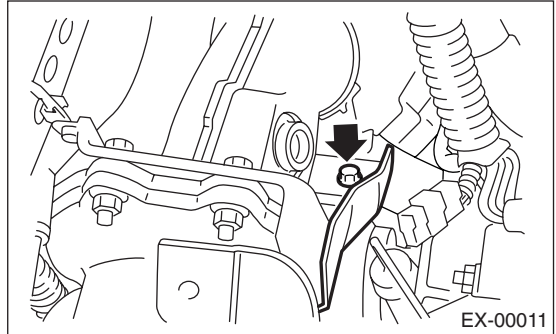
Be careful, the turbocharger and exhaust pipe are hot.



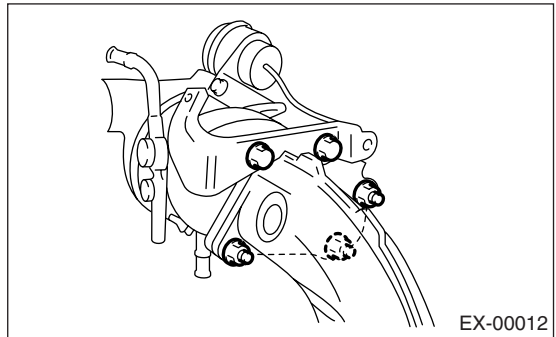
- 8) Lower the vehicle.
- 9) Remove the turbocharger upper cover.



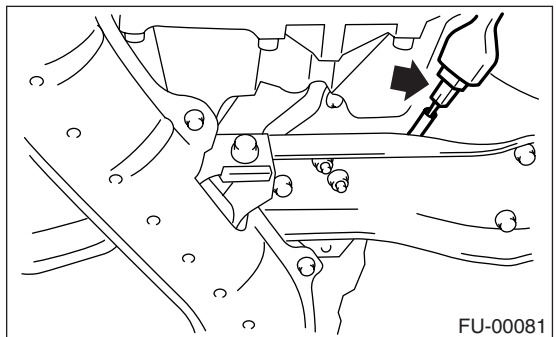
- 10) Remove the bolts which install upper side of turbocharger upper cover, and remove it.



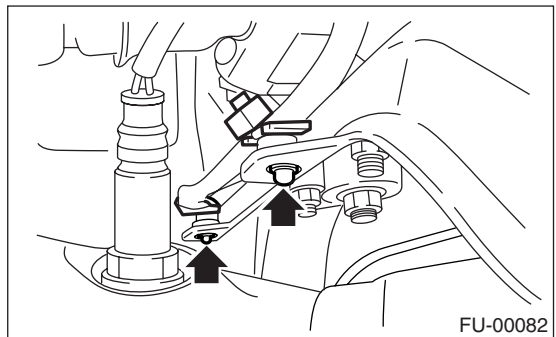
- 11) Separate the center exhaust pipe from turbocharger.



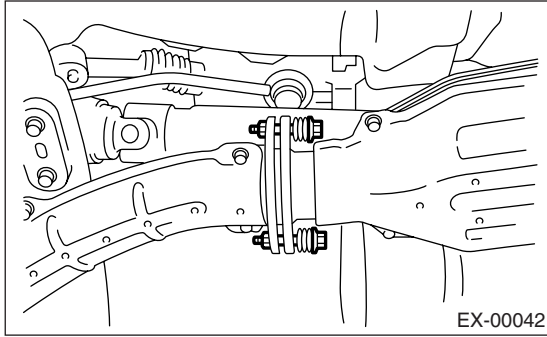
- 12) Lift-up the vehicle.
- 13) Disconnect the connector from rear oxygen sensor.



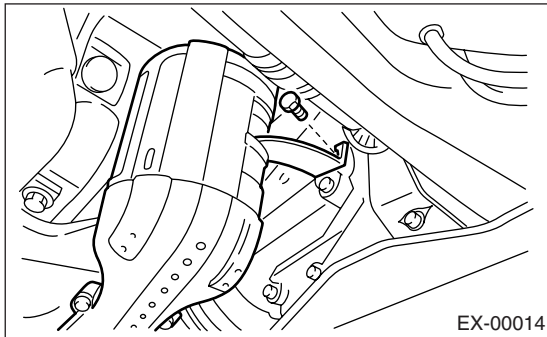
- 14) Vertically draw out the clip from crossmember.



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



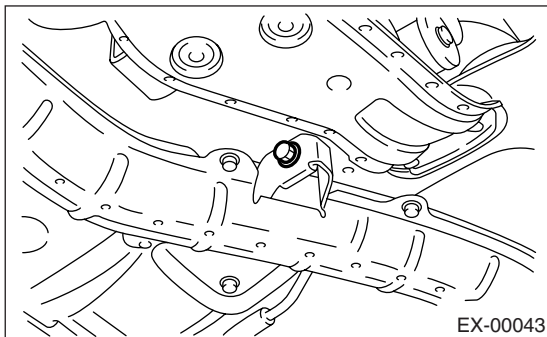
16) Remove the bolt which holds center exhaust pipe bracket to transmission.



17) Remove the intercooler bracket.

18) Remove the bolt which holds center exhaust pipe to hanger bracket.

CAUTION:
Be careful not to pull down the center exhaust pipe.



19) Remove the center exhaust pipe.



B: INSTALLATION

NOTE:

Replace the gaskets with new ones.

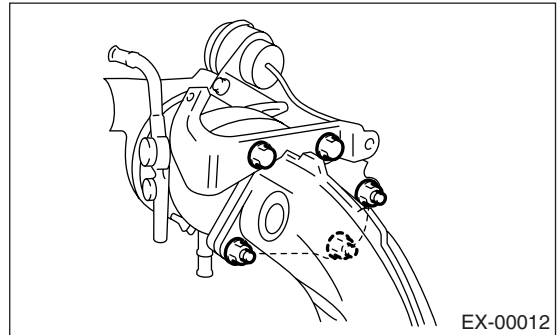
1) Install the center exhaust pipe and temporarily tighten the bolt which holds center exhaust pipe to hanger bracket.

2) Temporarily tighten the bolt which holds center pipe to transmission.

3) Connect the center exhaust pipe to turbocharger.

Tightening torque:

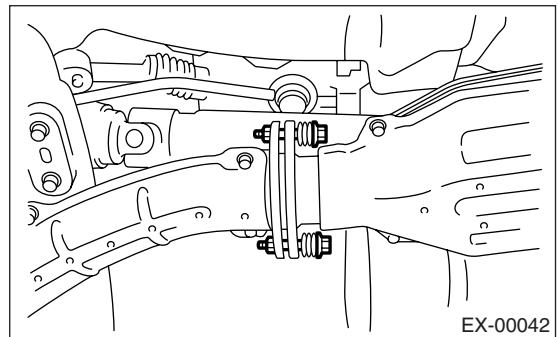
35 N·m (3.6 kgf-m, 26.0 ft-lb)



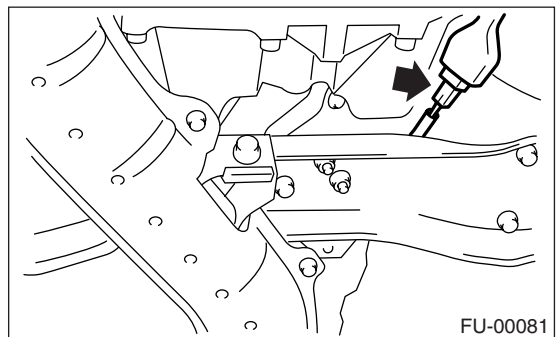
4) Install the center exhaust pipe to rear exhaust pipe.

Tightening torque:

18 N·m (1.8 kgf-m, 13.0 ft-lb)



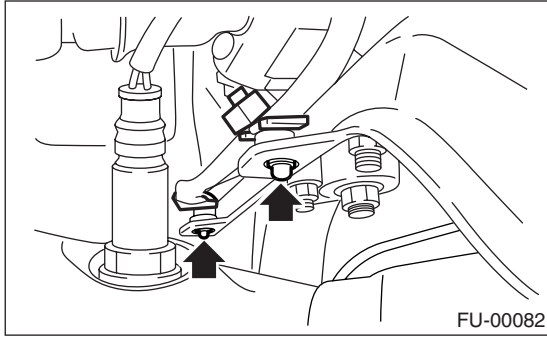
5) Connect the connector to rear oxygen sensor.



CENTER EXHAUST PIPE

EXHAUST

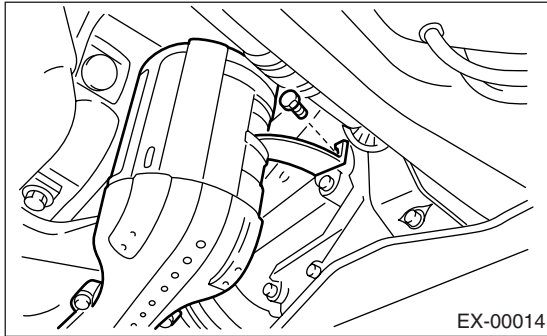
6) Secure the clip on crossmember.



7) Tighten the bolt which holds center exhaust pipe bracket to transmission.

Tightening torque:

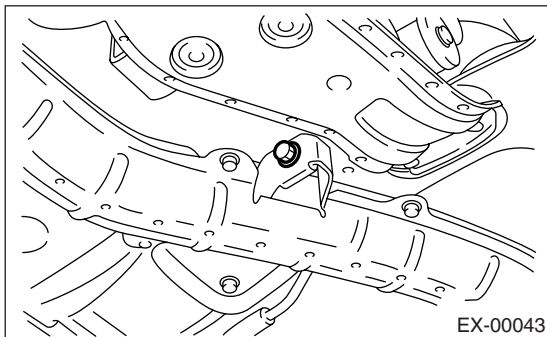
30 N·m (3.1 kgf·m, 22.4 ft·lb)



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

Tightening torque:

35 N·m (3.6 kgf·m, 26.0 ft·lb)



9) Tighten the bolts which hold intercooler bracket.

Tightening torque:

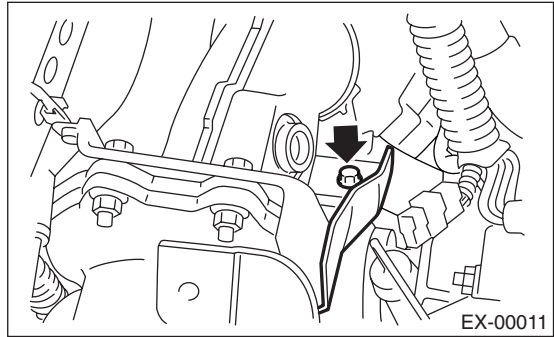
35 N·m (3.6 kgf·m, 26.0 ft·lb)

10) Lower the vehicle.

11) Place the turbocharger lower cover, and tighten the bolts which install upper side of lower cover.

Tightening torque:

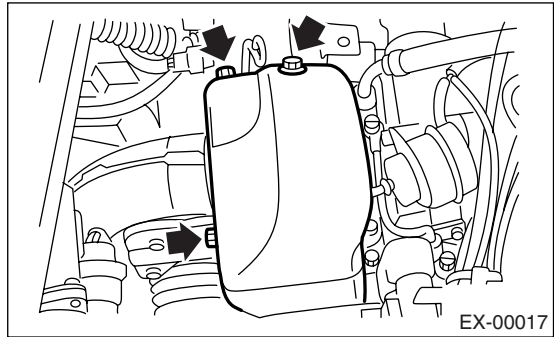
7.4 N·m (0.75 kgf·m, 5.4 ft·lb)



12) Place the turbocharger upper cover, and tighten the bolts which install upper side of upper cover.

Tightening torque:

7.4 N·m (0.75 kgf·m, 5.4 ft·lb)

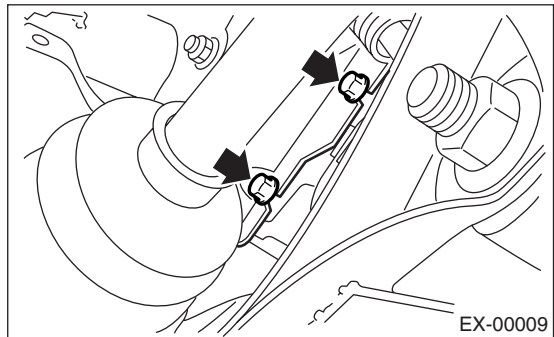


13) Lift-up the vehicle.

14) Tighten the bolts which install under side of turbocharger upper cover.

Tightening torque:

7.4 N·m (0.75 kgf·m, 5.4 ft·lb)



15) Install the universal joint.

(1) Align the bolt hole on long yoke side of universal joint with the cutout at serrated section of shaft end, and insert the universal joint.

(2) Align the bolt hole on short yoke side of universal joint with the cutout at serrated section of gearbox assembly. Lower the universal joint completely.

(3) Temporarily tighten the bolt on short yoke side. Raise the universal joint to make sure the bolt is properly passing through the cutout at serrated section.

(4) Tighten the bolt on long yoke side, then that on the short yoke side.

Tightening torque:

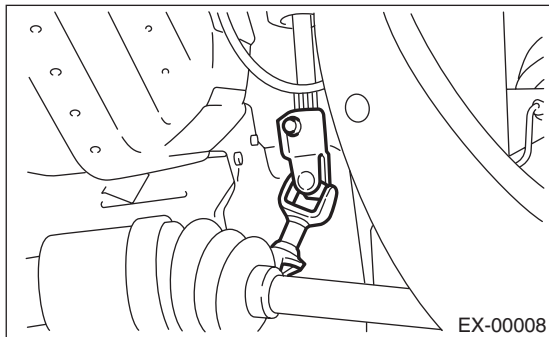
24 N·m (2.4 kgf-m, 17.4 ft-lb)

CAUTION:

- Make sure that the universal joint bolts are tightened through notches in shaft serration.
- Excessively large tightening torque of universal joint bolts may lead to heavy steering wheel operation.

Standard clearance between gearbox to DOJ:

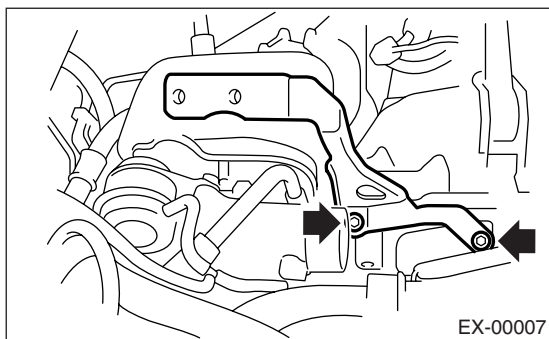
Over 15 mm (0.59 in)



16) Install the under cover.

17) Lower the vehicle.

18) Install the intercooler bracket.



19) Install the intercooler. <Ref. to IN(H4DOTC)-11, INSTALLATION, Intercooler.>

20) Align the center of roll connector. <Ref. to AB-11, ROLL CONNECTOR, INSPECTION, Inspection Locations After a Collision.>