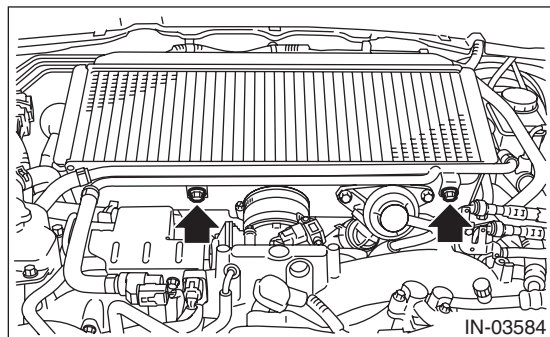


6. Intercooler

A: REMOVAL

1) Remove the chamber assembly. <Ref. to IN(STI)-22, REMOVAL, Chamber Assembly.>

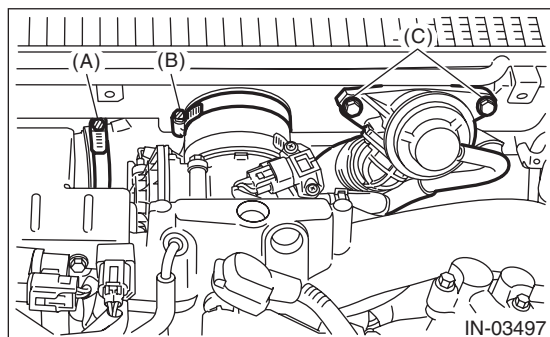
2) Remove the bolts holding the PCV pipe to the intercooler.



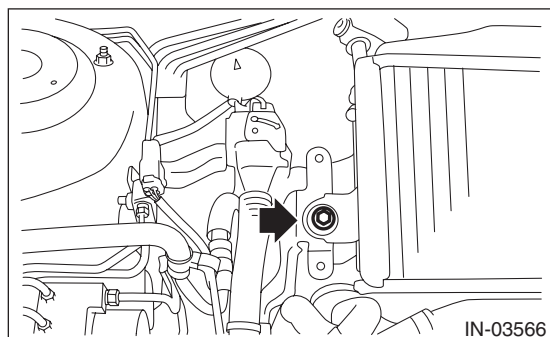
3) Loosen the clamp (A) holding the intake duct to the turbocharger.

4) Loosen the clamp (B) holding the air duct hose to the intercooler.

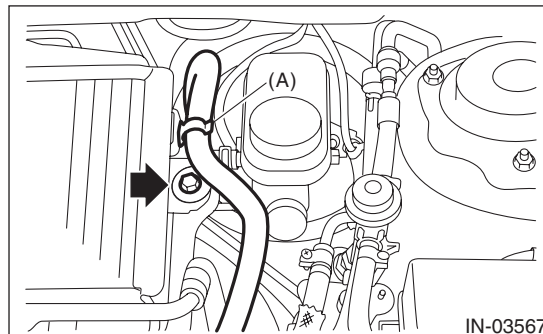
5) Remove the bolts (C) securing the air by-pass valve to the intercooler, and disconnect the air by-pass valve.



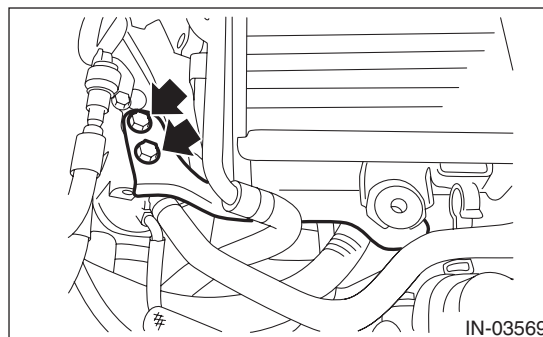
6) Remove the bolts which secure the intercooler to the intercooler stay RH No. 1.



7) Remove the brake booster vacuum hose from the intercooler clip (A), and remove the bolts which secure the intercooler to the intercooler stay LH.

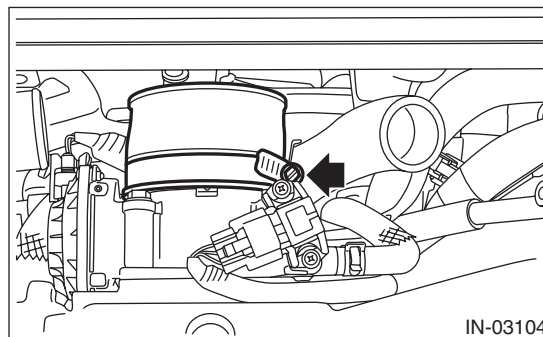


8) Remove the intercooler stay LH.

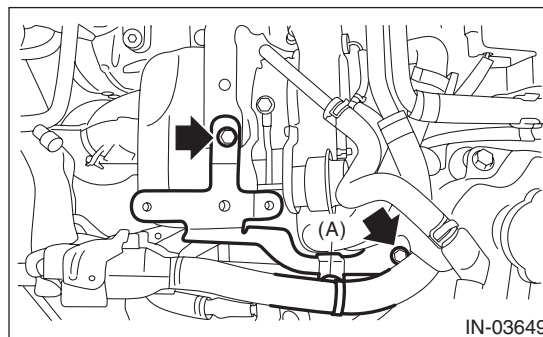


9) Remove the intercooler.

10) Remove the air duct hose from the throttle body.



11) Remove clip (A) holding the engine harness to the intercooler stay RH No. 1, and remove the intercooler stay RH No. 1.



Intercooler

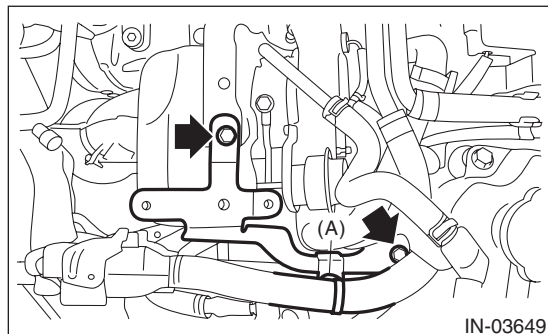
INTAKE (INDUCTION)

B: INSTALLATION

1) Install the intercooler stay RH No. 1, and install the clip (A) which secures the engine harness to the intercooler stay RH No. 1.

Tightening torque:

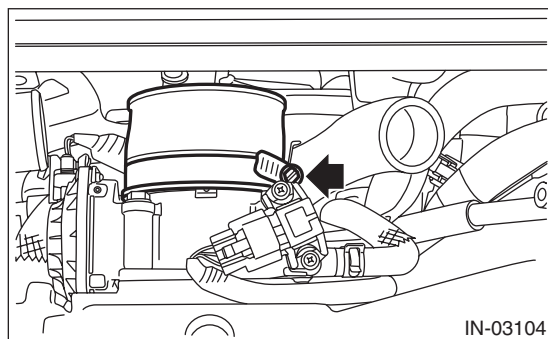
16 N·m (1.6 kgf-m, 11.8 ft-lb)



2) Attach the air duct hose to the throttle body.

Tightening torque:

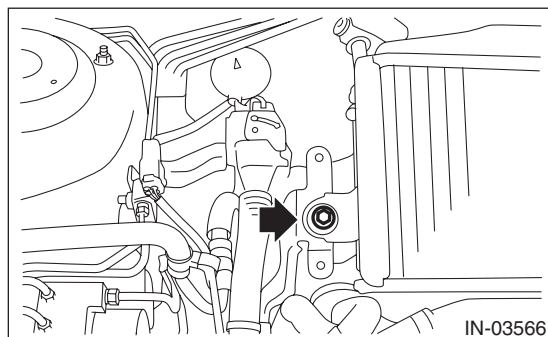
3 N·m (0.3 kgf-m, 2.2 ft-lb)



3) Set the intercooler to the vehicle, and install the bolts securing the intercooler to the intercooler stay RH No. 1.

Tightening torque:

16 N·m (1.6 kgf-m, 11.8 ft-lb)



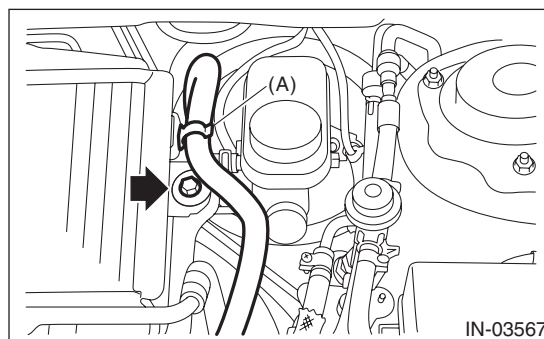
4) Temporarily tighten the bolt securing the intercooler stay LH to the intake manifold.



5) Install the bolts which secure the intercooler to the intercooler stay LH, and install the brake booster vacuum hose to the clip (A).

Tightening torque:

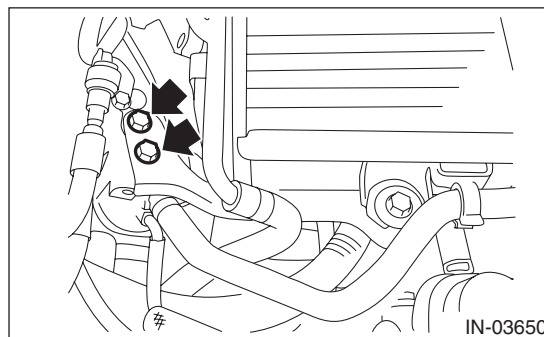
16 N·m (1.6 kgf-m, 11.8 ft-lb)



6) Tighten the bolt securing the intercooler stay LH to the intake manifold.

Tightening torque:

16 N·m (1.6 kgf-m, 11.8 ft-lb)



7) Tighten the clamp (A) which secures the intake duct to the turbocharger.

8) Tighten the clamp (B) which secures the air duct hose to the intercooler.

9) Install the bolts (C) which secures the air bypass valve to the intercooler, and install the air bypass valve.

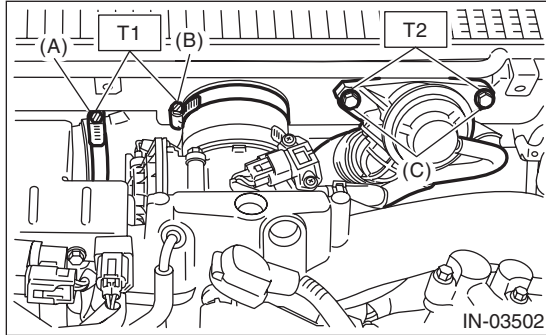
NOTE:

Use a new gasket.

Tightening torque:

T1: 3 N·m (0.3 kgf-m, 2.2 ft-lb)

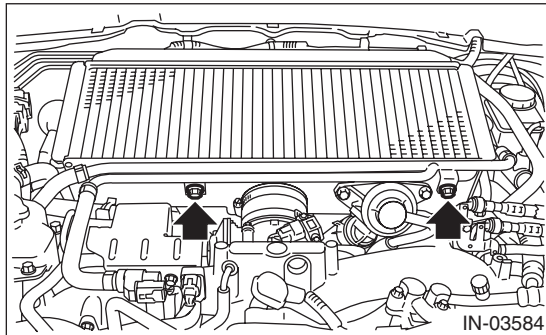
T2: 16 N·m (1.6 kgf-m, 11.8 ft-lb)



10) Install the PCV pipe to the intercooler.

Tightening torque:

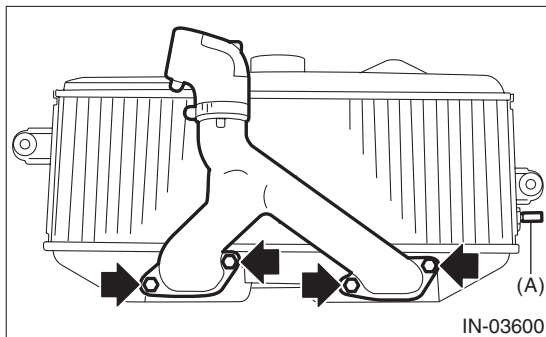
5.5 N·m (0.6 kgf-m, 4.1 ft-lb)



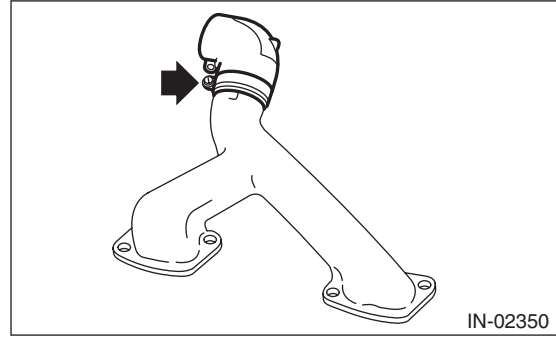
11) Install the chamber assembly. <Ref. to IN(STI)-22, INSTALLATION, Chamber Assembly.>

C: DISASSEMBLY

1) Remove the clip (A) and intercooler duct from the intercooler.



2) Remove the intake duct from intercooler duct.

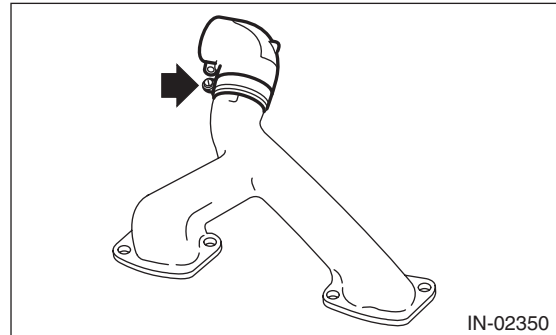


D: ASSEMBLY

1) Install the intake duct to the intercooler duct.

Tightening torque:

3 N·m (0.3 kgf-m, 2.2 ft-lb)



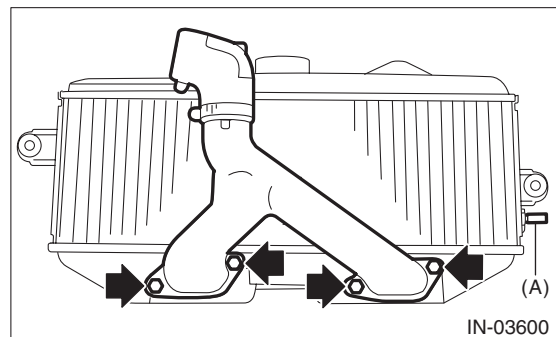
2) Install the clip (A) and intercooler duct to the intercooler.

NOTE:

Use a new gasket.

Tightening torque:

16 N·m (1.6 kgf-m, 11.8 ft-lb)



E: INSPECTION

1) Check that the intercooler and intercooler duct have no deformation, cracks or other damages.

2) Check that the hose and intake duct have no cracks, damage or loose part.