

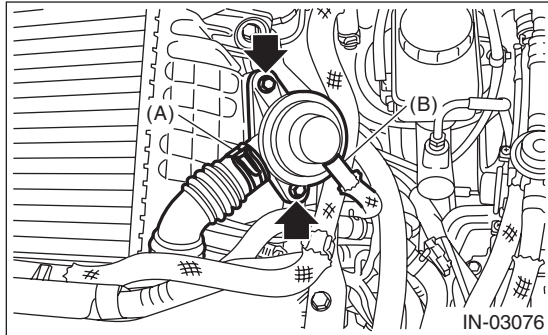
Air By-pass Valve

INTAKE (INDUCTION)

8. Air By-pass Valve

A: REMOVAL

Disconnect the air by-pass pipe (A) and vacuum hose (B) from the air by-pass valve, and remove the air by-pass valve from the intercooler.



B: INSTALLATION

Install in the reverse order of removal.

NOTE:

- Use new O-rings.
- Be careful not to pinch the O-ring.

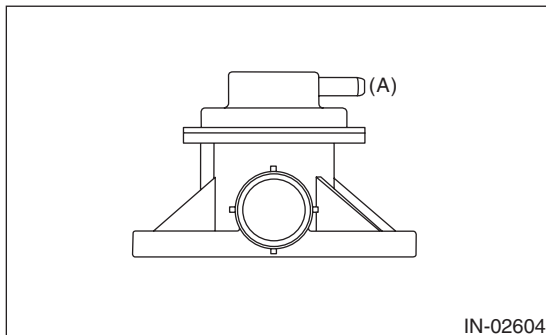
Tightening torque:

6.5 N·m (0.7 kgf·m, 4.8 ft·lb)

C: INSPECTION

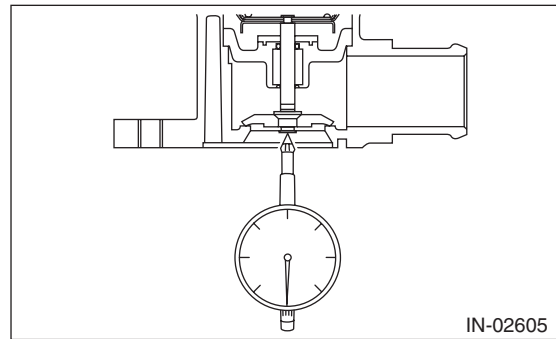
1. AIR BY-PASS VALVE

- 1) Check that the air by-pass valve has no deformation, cracks or other damages.
- 2) Connect the Mighty Vac to the nipple (A) of the air by-pass valve.



- 3) Using the Mighty Vac, generate the negative pressure to -93.3 kPa (-0.95 kgf/cm^2 , -13.5 psi). Check that the Mighty Vac gauge needle holds 10 seconds without falling by -92.6 kPa (-0.94 kgf/cm^2 , -13.4 psi).

- 4) Set a dial gauge to the end of valve rod of the air by-pass valve.



- 5) Using the Mighty Vac, generate the negative pressure, and check the pressure when dial gauge needle (valve stroke) shows 0.5 mm (0.02 in). If it is not within the standard, replace the air by-pass valve.

Opening pressure (valve stroke 0.5 mm (0.02 in)):

Standard

-53.3 — -61.3 kPa (-0.54 — -0.63 kgf/cm^2 , -7.73 — -8.89 psi)

- 6) Generate the additional negative pressure from 5), and check the pressure when dial gauge needle (valve stroke) shows 7.5 mm (0.3 in). If it is not within the standard, replace the air by-pass valve.

Full open pressure (valve stroke 7.5 mm (0.3 in)):

Standard

-93.4 — -108 kPa (-0.95 — -1.10 kgf/cm^2 , -13.5 — -15.7 psi)

2. OTHER INSPECTIONS

Check that the vacuum hose and air by-pass pipe have no cracks, damage or loose part.

MECHANICAL

ME(w/o STI)

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