

8. Turbocharger

A: REMOVAL

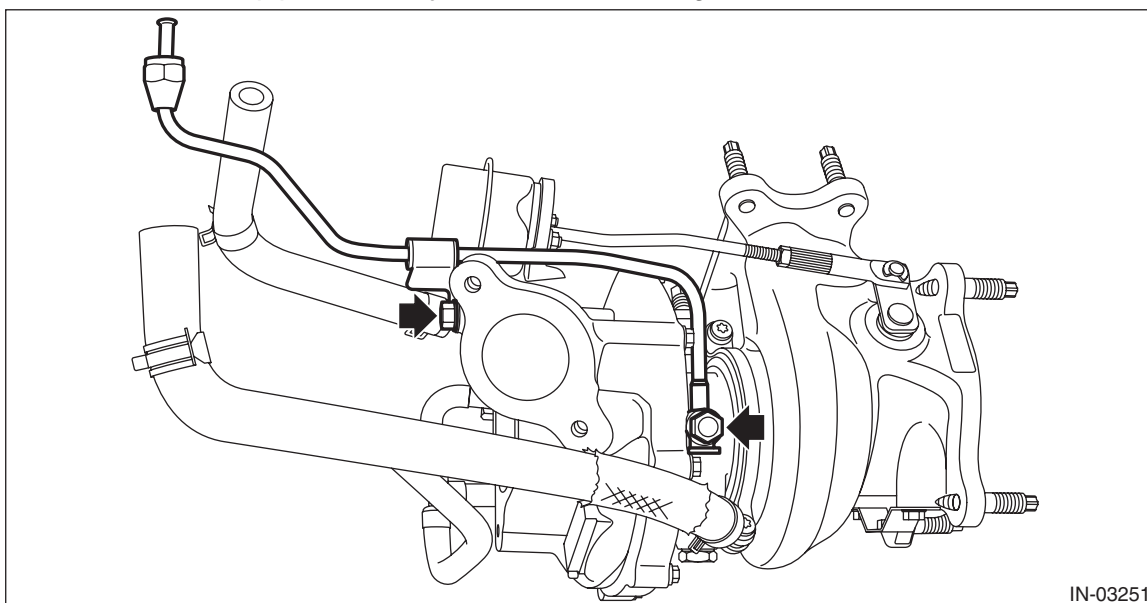
Remove the turbo charger and front exhaust pipe as a unit. Refer to “Front Exhaust Pipe” for the removal procedure. <Ref. to EX(w/o STI)-9, REMOVAL, Front Exhaust Pipe.> <Ref. to EX(w/o STI)-29, DISASSEMBLY, Front Exhaust Pipe.>

B: INSTALLATION

Refer to “Front Exhaust Pipe” for the installation procedure. <Ref. to EX(w/o STI)-19, INSTALLATION, Front Exhaust Pipe.> <Ref. to EX(w/o STI)-32, ASSEMBLY, Front Exhaust Pipe.>

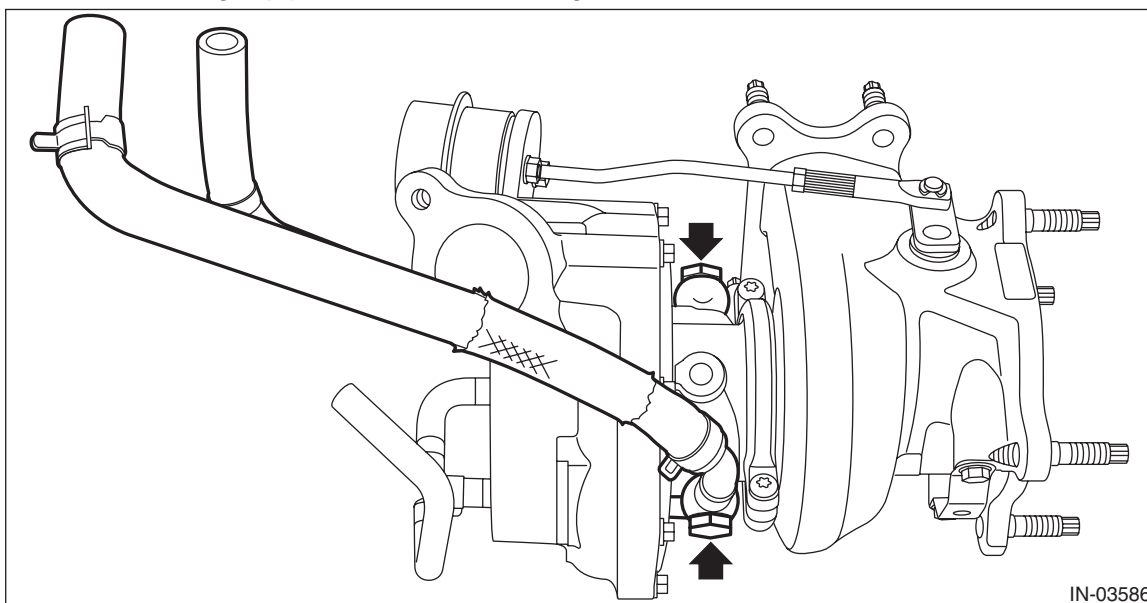
C: DISASSEMBLY

1) Remove the union screw pipe assembly from the turbocharger.



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2) Remove the turbocharger pipe from the turbocharger.

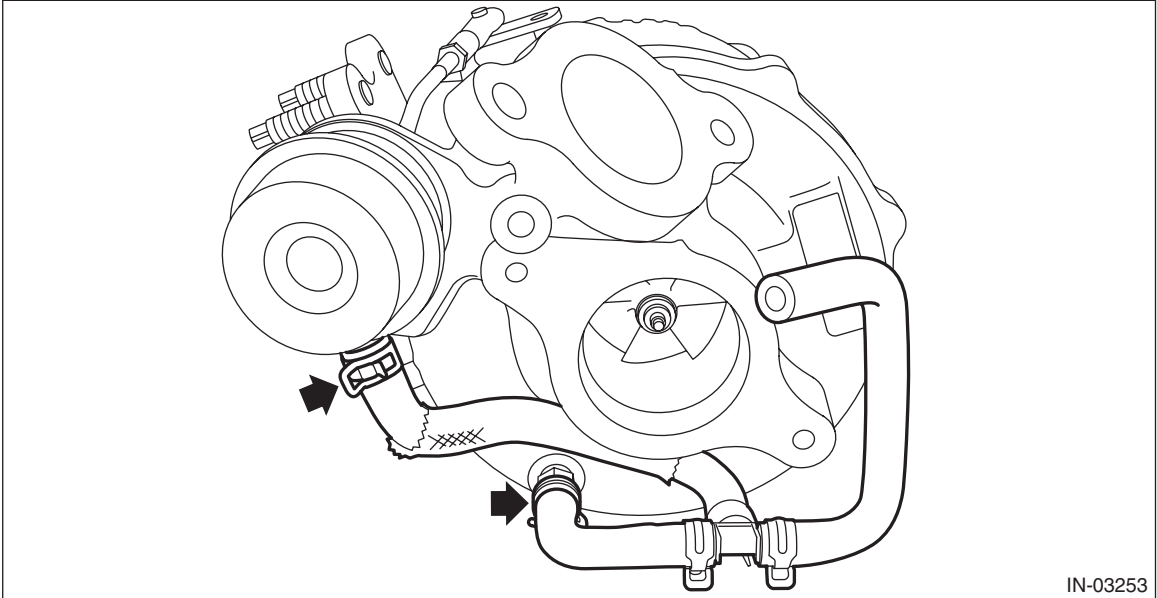


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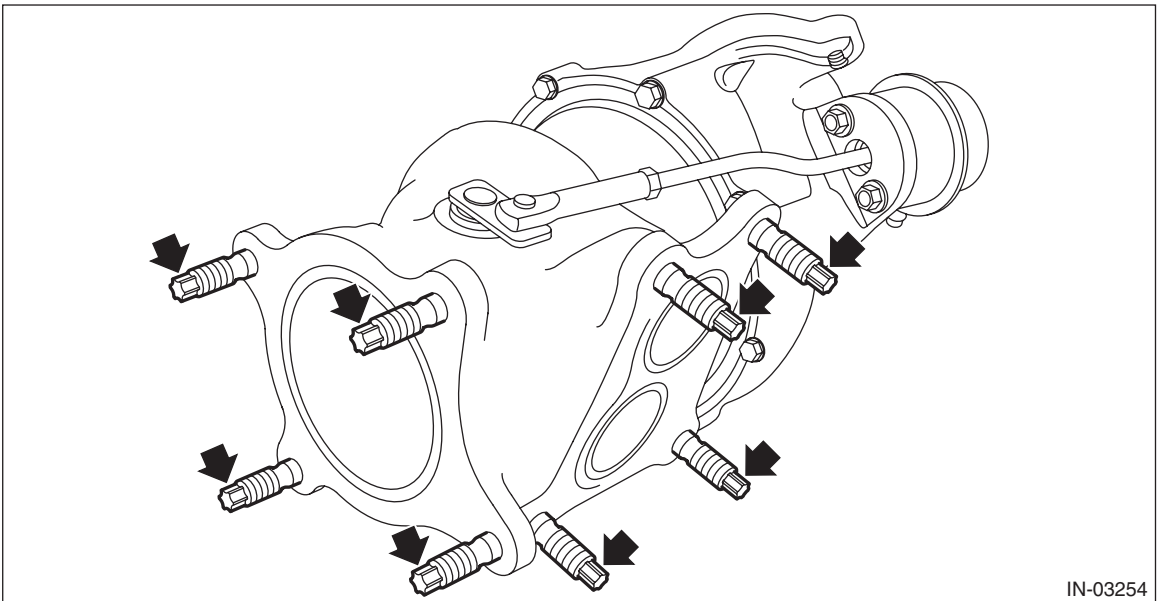
Turbocharger

INTAKE (INDUCTION)

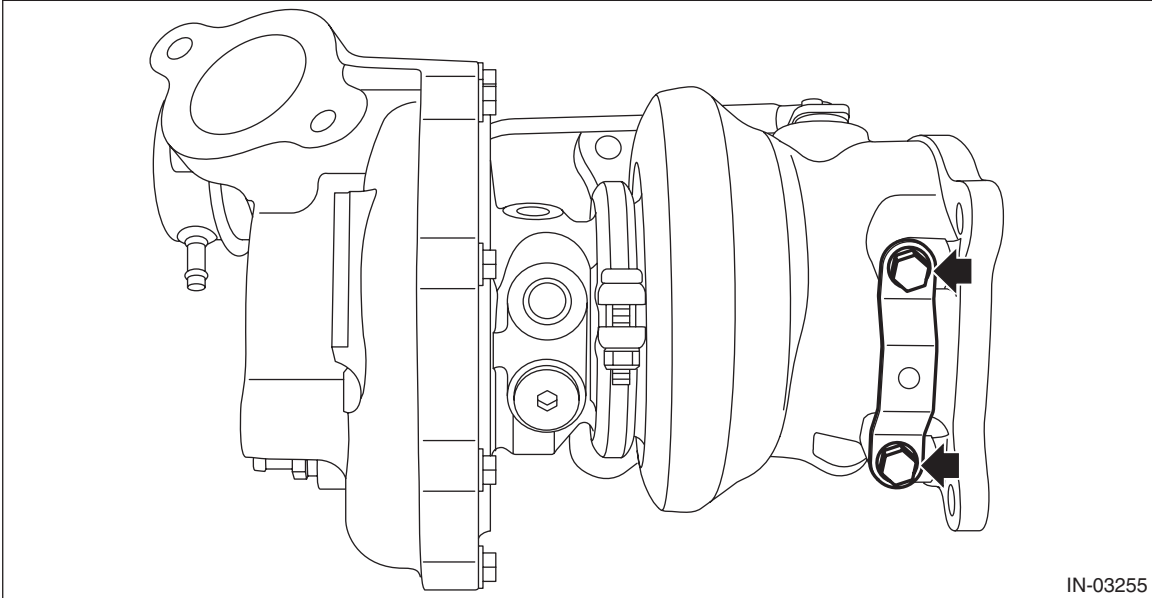
3) Remove the air control hose from the turbocharger.



4) Remove the stud bolt from the turbocharger.



- 5) Remove the exhaust stay from the turbocharger.

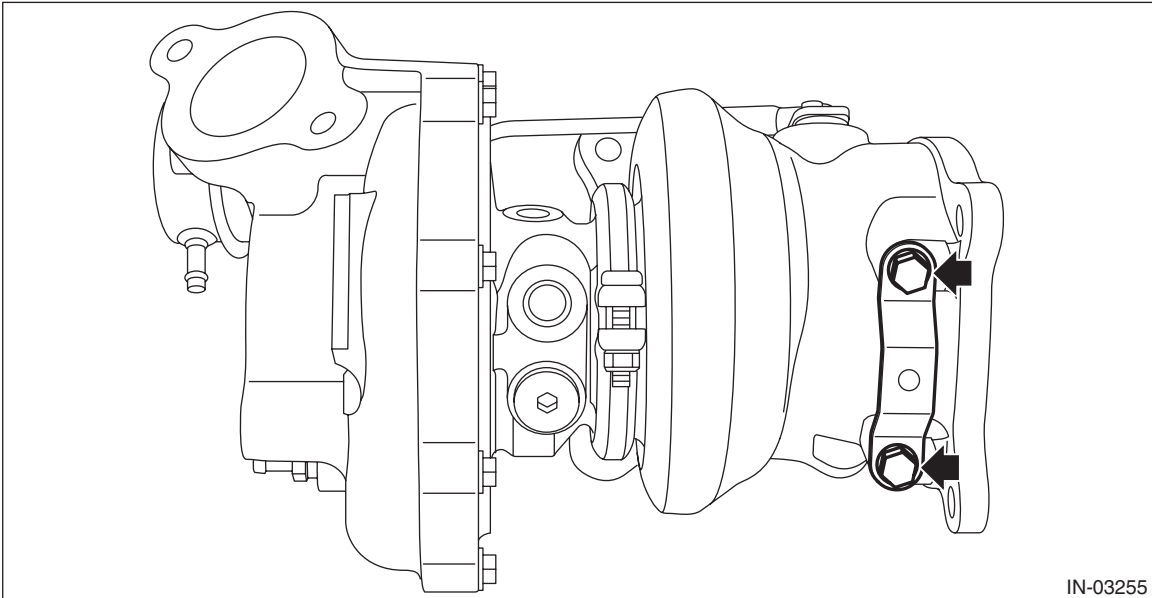


D: ASSEMBLY

- 1) Install the exhaust stay to the turbocharger.

Tightening torque:

6.4 N·m (0.7 kgf-m, 4.7 ft-lb)



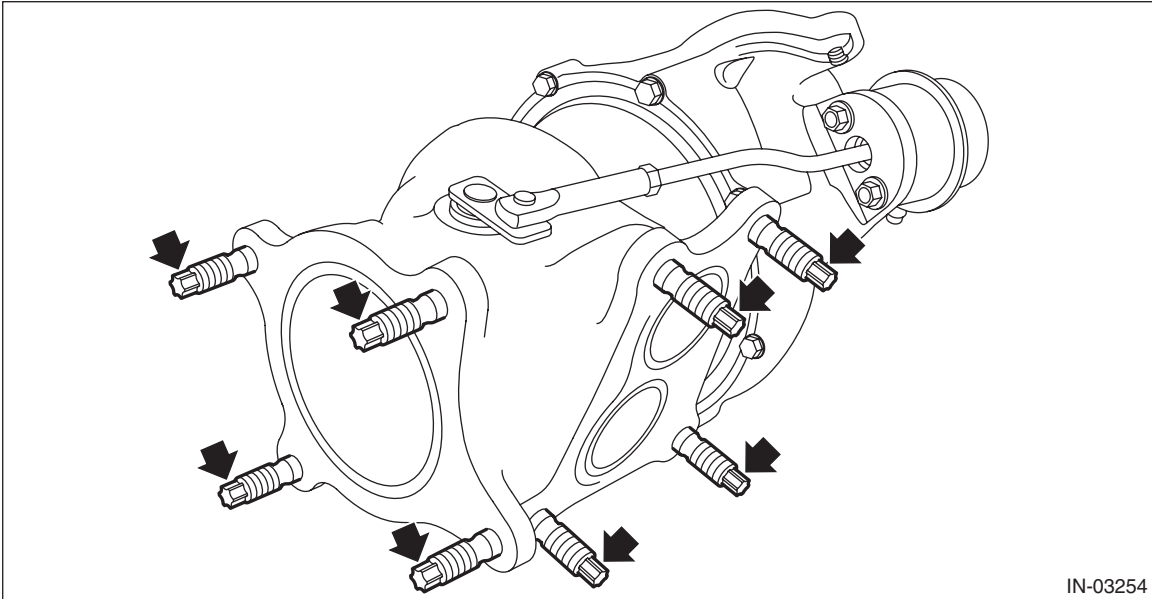
Turbocharger

INTAKE (INDUCTION)

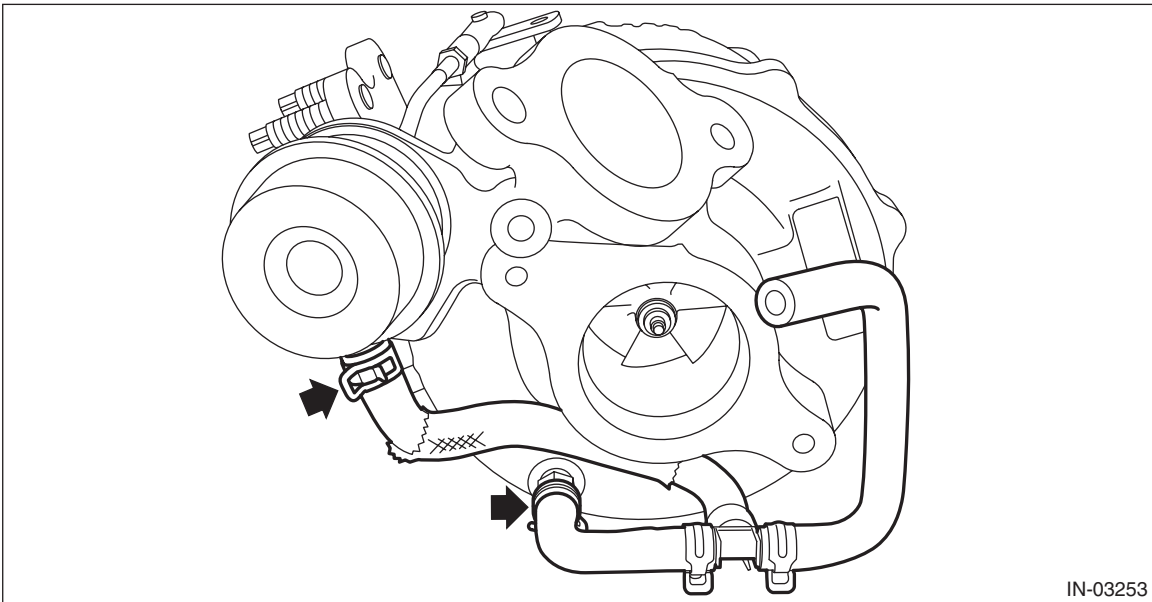
2) Attach the stud bolts to the turbocharger.

Tightening torque:

14.7 N·m (1.5 kgf-m, 10.8 ft-lb)



3) Install the air control hose to the turbocharger.



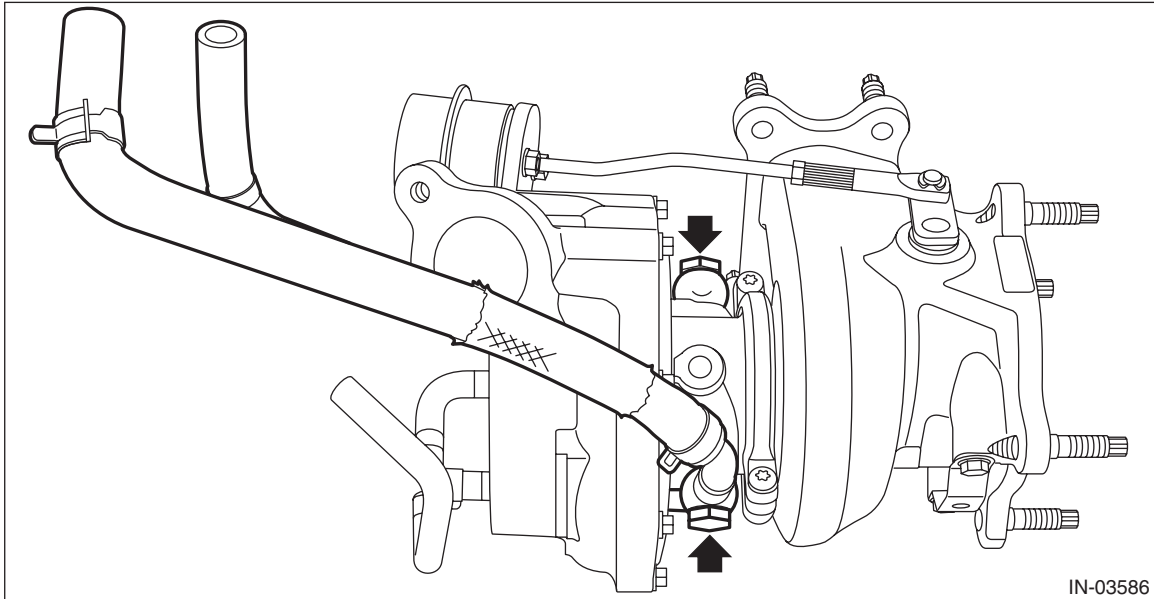
4) Install the turbocharger pipe to the turbocharger.

NOTE:

Use a new gasket.

Tightening torque:

31.5 N·m (3.2 kgf-m, 23.2 ft-lb)



5) Install the union screw pipe assembly to the turbocharger.

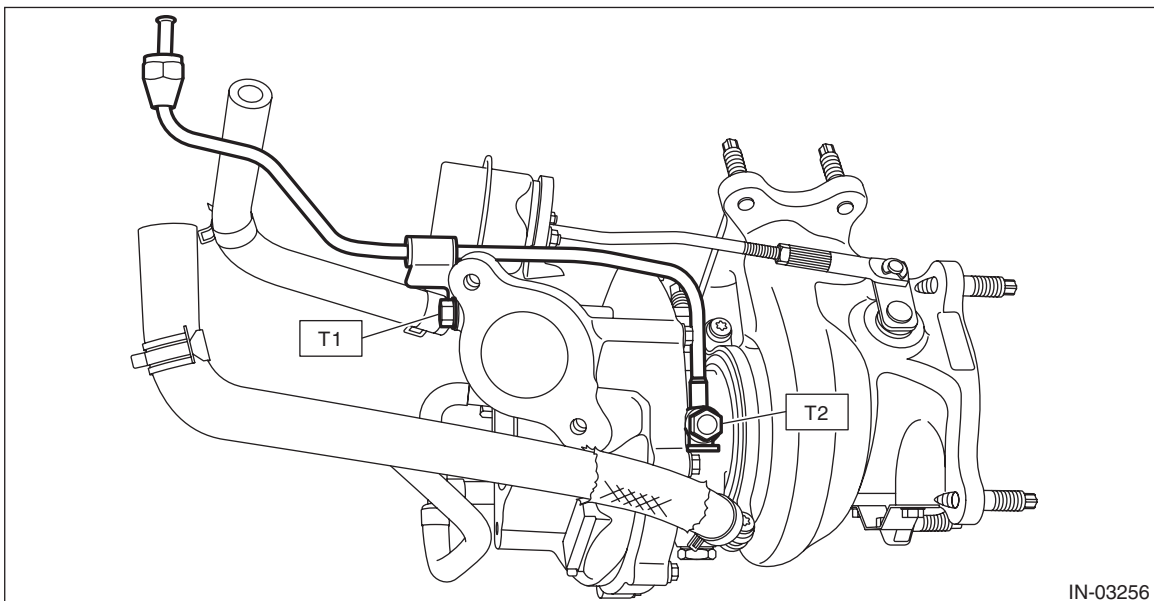
NOTE:

Use a new gasket.

Tightening torque:

T1: 6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

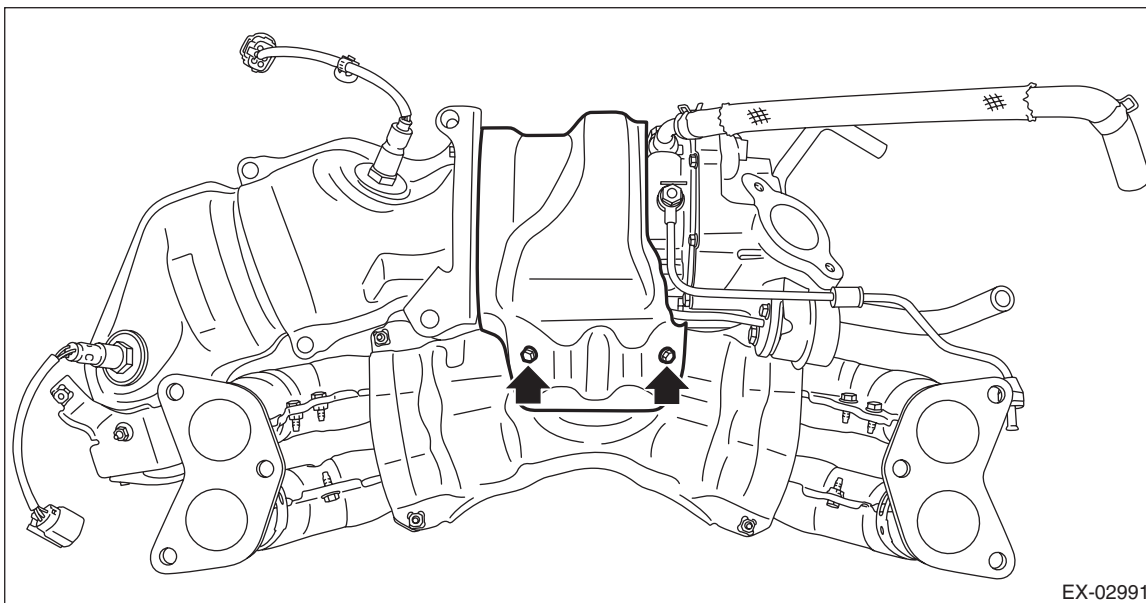
T2: 16 N·m (1.6 kgf-m, 11.8 ft-lb)



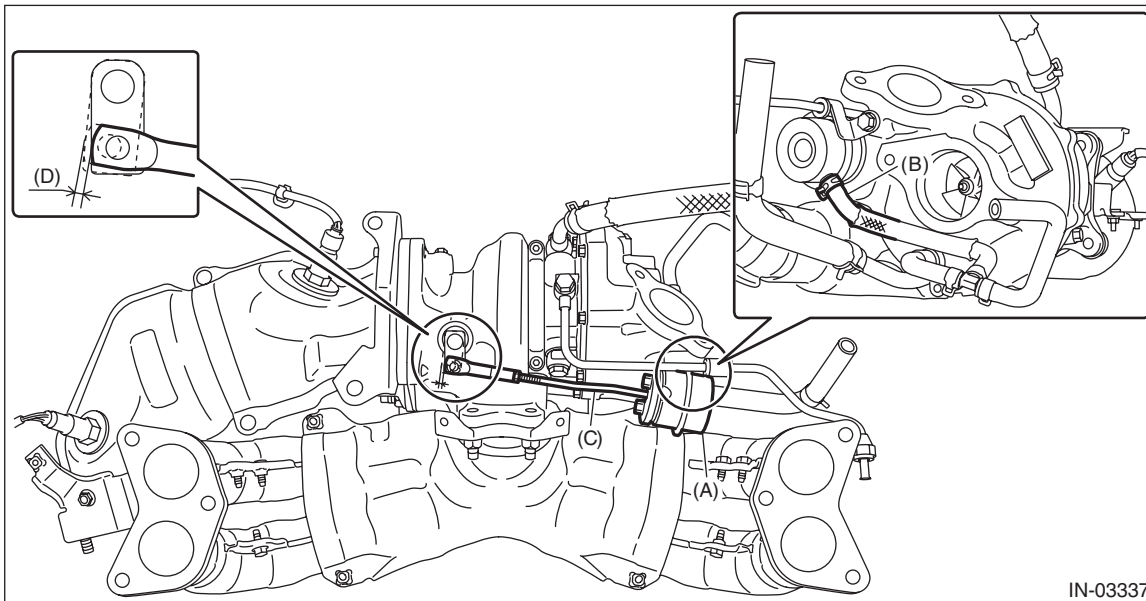
E: INSPECTION

1. WASTE GATE ACTUATOR

- 1) Remove the front exhaust pipe. <Ref. to EX(w/o STI)-9, REMOVAL, Front Exhaust Pipe.>
- 2) Remove the exhaust cover.



- 3) Remove the vacuum control hose (B) from the waste gate actuator (A) of the turbocharger, and connect the Mighty Vac to the waste gate actuator (A).



- | | | |
|-------------------------|-----------------|------------------------|
| (A) Waste gate actuator | (C) Control rod | (D) Control rod stroke |
| (B) Vacuum control hose | | |

4) Pressurize slowly with the Mighty Vac, and check the pressure when the control rod stroke (D) becomes 1 ± 0.15 mm (0.0394 ± 0.0059 in). If it is not within the standard, replace the turbocharger assembly.

CAUTION:

Do not pressurize over 112.7 kPa (1.15 kg/cm^2 , 16.34 psi) to prevent damaging the waste gate actuator.

Operating pressure (control rod stroke 1 ± 0.15 mm (0.0394 ± 0.0059 in)):

Standard

84.0 — 88.0 kPa ($0.86 — 0.90 \text{ kg/cm}^2$, 12.18 — 12.76 psi)

5) After inspection, install the related parts in the reverse order of removal.

Tightening torque:

6.4 N·m (0.7 kgf-m , 4.7 ft-lb)

2. OTHER INSPECTIONS

- 1) Check that the turbocharger and pipe have no deformation, cracks or other damages.
- 2) Check that the hose has no cracks, damage or loose part.
- 3) Check that there are no oil leakage or water leakage from the pipe attachment section.