

8. Turbocharger

A: REMOVAL

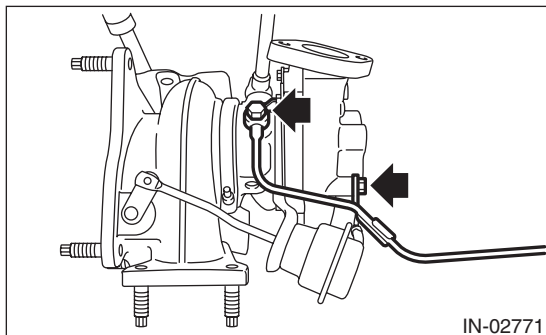
Remove the turbo charger and front exhaust pipe as a unit. Refer to "Front Exhaust Pipe" for the removal procedure. <Ref. to EX(H4DOTC)-5, REMOVAL, Front Exhaust Pipe.> <Ref. to EX(H4DOTC)-10, DISASSEMBLY, Front Exhaust Pipe.>

B: INSTALLATION

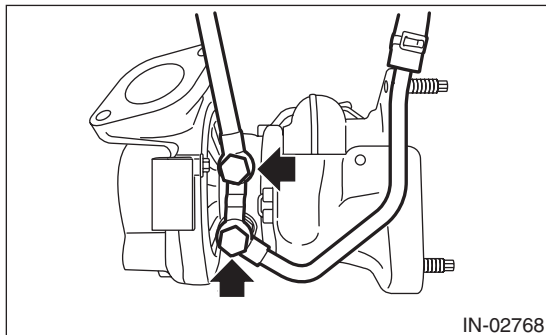
Refer to "Front Exhaust Pipe" for the installation procedure. <Ref. to EX(H4DOTC)-7, INSTALLATION, Front Exhaust Pipe.> <Ref. to EX(H4DOTC)-11, ASSEMBLY, Front Exhaust Pipe.>

C: DISASSEMBLY

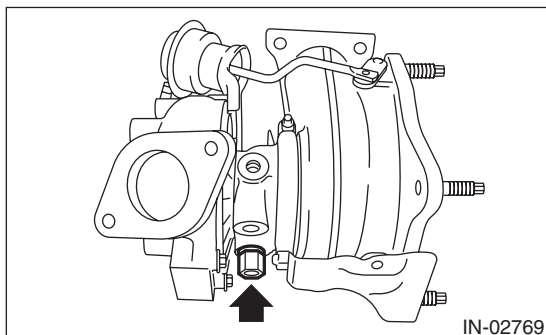
1) Remove the oil inlet pipe from the turbocharger.



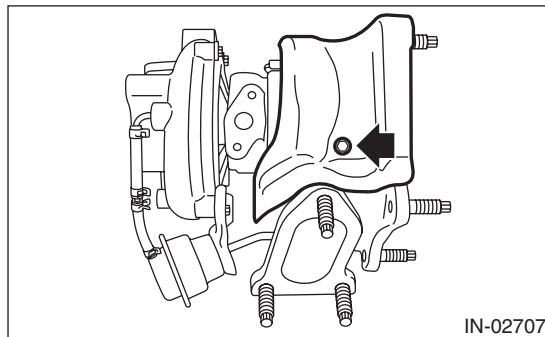
2) Remove the water pipe from the turbocharger.



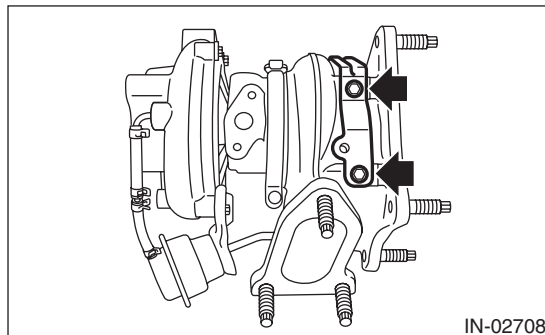
3) Remove the water pipe connector from the turbocharger.



4) Remove the exhaust cover from the turbocharger.



5) Remove the exhaust stay from the turbocharger.

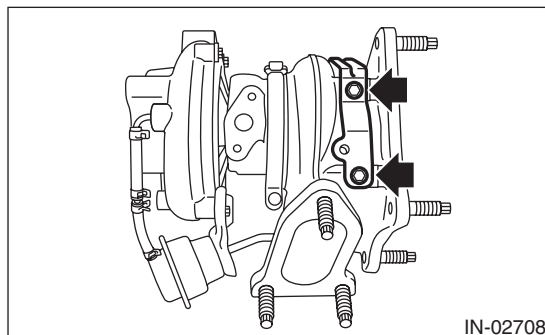


D: ASSEMBLY

1) Install the exhaust stay to the turbocharger.

Tightening torque:

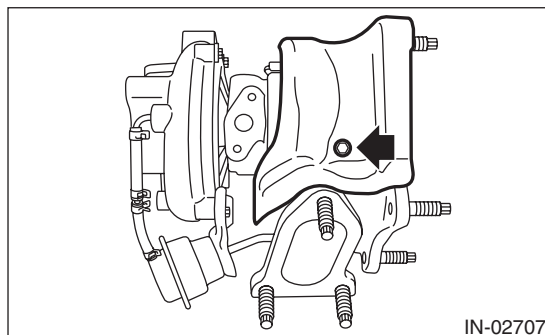
6.4 N·m (0.7 kgf-m, 4.7 ft-lb)



2) Install the exhaust cover to the turbocharger.

Tightening torque:

6.4 N·m (0.7 kgf-m, 4.7 ft-lb)



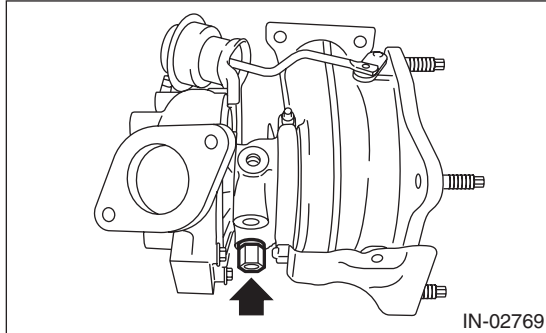
3) Install the water pipe connector to the turbocharger.

NOTE:

Use a new gasket.

Tightening torque:

36.5 N·m (3.7 kgf-m, 26.9 ft-lb)



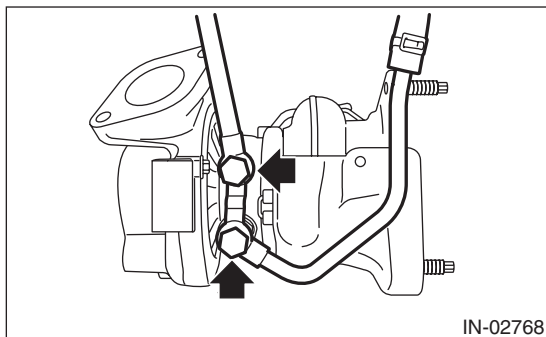
4) Install the water pipe to the turbocharger.

NOTE:

Use a new gasket.

Tightening torque:

31.5 N·m (3.2 kgf-m, 23.2 ft-lb)



5) Install the oil inlet pipe to the turbocharger.

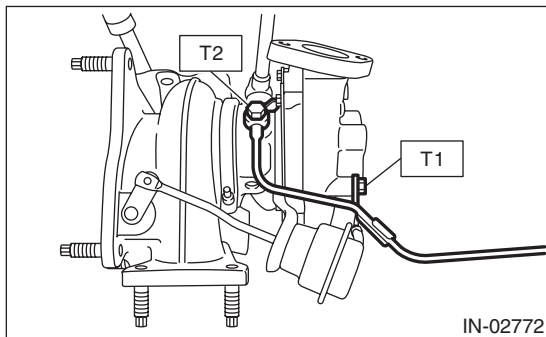
NOTE:

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)



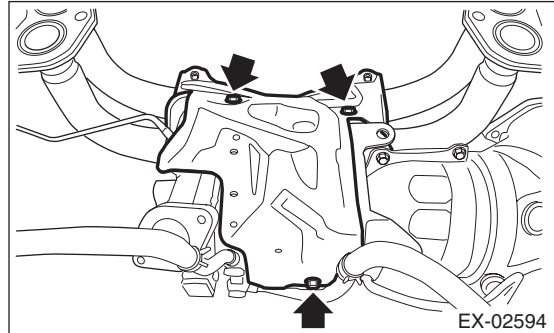
E: INSPECTION

1. WASTE GATE ACTUATOR

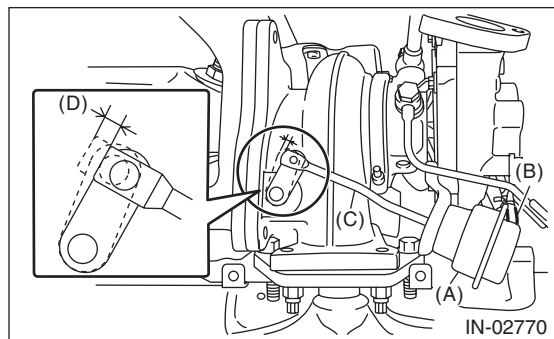
1) Remove the collector cover.

2) Remove the front exhaust pipe. <Ref. to EX(H4DOTC)-5, REMOVAL, Front Exhaust Pipe.>

3) Remove the exhaust pipe cover.



4) Remove the boost 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

(B) Boost hose

(C) Control rod

(D) Control rod stroke

5) Pressurize slowly with the Mighty Vac, and check the pressure when the control rod stroke (D) becomes 2 mm (0.08 in). If it is not within the standard, replace the turbocharger assembly.

CAUTION:

Do not pressurize over 85.2 kPa (0.87 kgf/cm², 12.35 psi) to prevent damaging the waste gate actuator.

Operating pressure (control rod stroke 2 mm (0.08 in)):

Standard

70.8 — 76.7 kPa (0.72 — 0.78 kgf/cm², 10.27 — 11.12 psi)

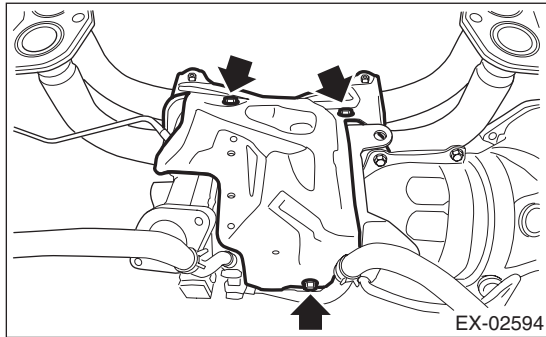
Turbocharger

INTAKE (INDUCTION)

6) 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 leaks or water leaks from the pipe attachment section.