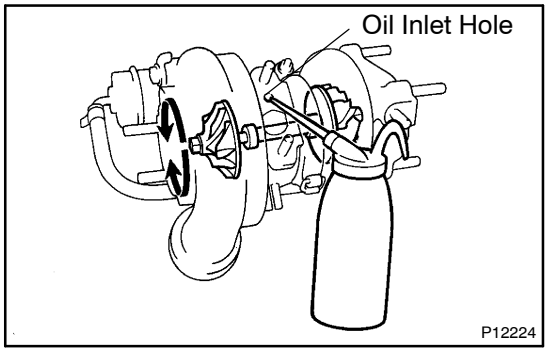
TC036–01

INSTALLATION



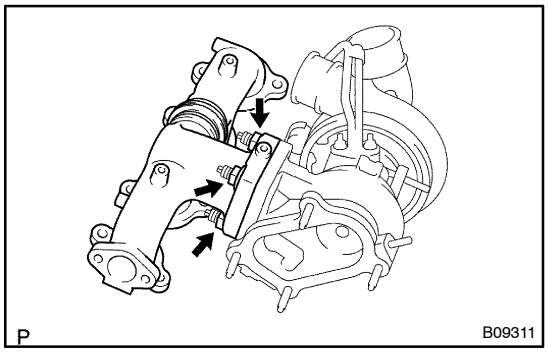
NOTICE:

After replacing the turbocharger assembly, pour approx. 20 cm^3 (1.2 cu in.) of fresh oil into the oil inlet hole and turn the turbine wheel by hand to splash oil on the bearing.

1. INSTALL AIR INLET ELBOW TO TURBOCHARGER

Install a new gasket and the inlet elbow with the 2 nuts.

Torque: 19.1 N·m (195 kgf·cm, 14 ft·lbf)



2. INSTALL EXHAUST MANIFOLD TO TURBOCHARGER

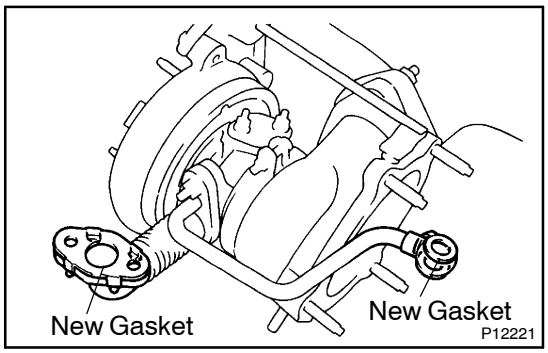
Install a new gasket and the exhaust manifold with the 3 nuts.

Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)

3. INSTALL TURBO OIL PIPE TO TURBOCHARGER

Install a new gasket and the oil pipe with the 2 nuts.

Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)



4. INSTALL TURBOCHARGER AND EXHAUST MANIFOLD ASSEMBLY

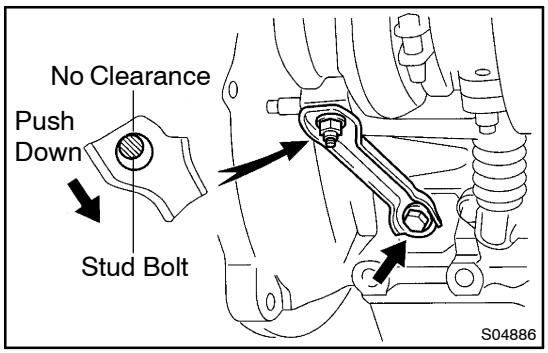
(a) Install 2 new gaskets to the turbo oil pipe.

(b) Install a new gasket, the turbocharger and exhaust manifold assembly with the 6 plate washers, 6 new nuts and the 2 bolts. Uniformly tightern the nuts and bolts in several passes.

Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)

(c) Install the union bolt and 2 bolts holding the oil pipe to the cylinder block.

Torque:
Union bolt: 26 N·m (260 kgf·cm, 19 ft·lbf)
Bolt: 12 N·m (125 kgf·cm, 9 ft·lbf)

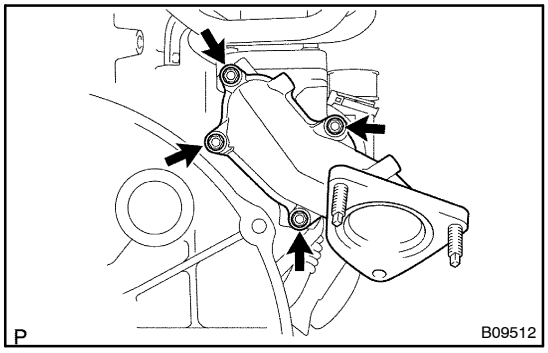


5. INSTALL TURBOCHARGER STAY

(a) Temporarily install the turbocharger stay with the bolt and a new nut.

(b) Push down the turbocharger stay and tighten the bolt and nut.

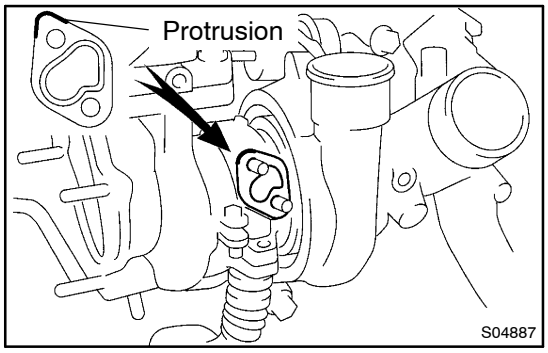
Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)



6. INSTALL TURBINE OUTLET ELBOW

Install a new gasket and the outlet elbow with 4 new nuts. Uniformly tighten the nuts in several passes.

Torque: 39 N·m (390 kgf·cm, 28 ft·lbf)

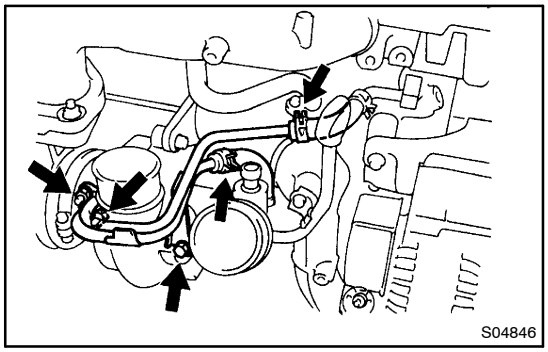


7. INSTALL TURBO WATER PIPE

(a) Place a new gasket on the turbocharger with the protrusion facing upward.

NOTICE:

Be careful of the gasket installation direction.



(b) Install the water pipe with the 2 nuts and bolt.

Torque:

Nut: 12 N·m (120 kgf·cm, 9 ft·lbf)

Bolt: 8 N·m (80 kgf·cm, 69 in.·lbf)

(c) Connect the 2 water bypass hoses to the turbo water pipe.

8. INSTALL EXHAUST MANIFOLD HEAT INSULATOR

Install the heat insulator with the 4 bolts.

9. INSTALL TURBOCHARGER HEAT INSULATOR

Install the heat insulator with the 4 bolts.

10. INSTALL INTAKE PIPE (See page EM–64)

11. FILL WITH ENGINE COOLANT

12. START ENGINE AND CHECK FOR LEAKS

13. CHECK ENGINE OIL LEVEL