TC045–01

ON–VEHICLE INSPECTION

1. INSPECT INTAKE AIR SYSTEM

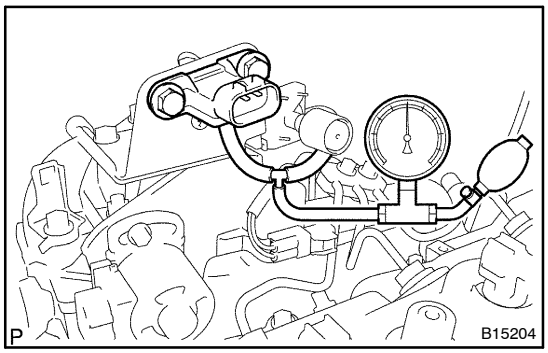
Check for leakage or clogging between the air cleaner housing and turbocharger inlet and between the turbocharger outlet and cylinder head.

- Clogged air cleaner .... Clean or replace element
- Hoses collapsed or deformed .... Repair or replace
- Leakage from connections .... Check each connection and repair
- Cracks in components .... Check and replace

2. INSPECT EXHAUST SYSTEM

Check for leakage or clogging between the cylinder head and turbocharger inlet and between the turbocharger outlet and exhaust pipe.

- Deformed components .... Repair or replace
- Foreign material in passages .... Remove
- Leakage from components .... Repair or replace
- Cracks in components .... Check and replace



3. CHECK TURBOCHARGER PRESSURE

(a) Warm up engine.

(b) Using a 3–way connector, connect SST (turbocharger pressure gauge) to the hose leading to the intake air connector.

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(c) Measure the turbocharging pressure at the maximum speed (5,100 – 5,250 rpm).

Standard pressure:

58.5 – 78.9 kPa (0.60 – 0.80 kgf/cm^2, 11.4 psi)

If the pressure is less than the specified, check the intake air and exhaust systems for leakage.

If there is no leakege, check the turbocharger.

If the pressure is above the specification, check if the actuator hose is disconnected or cracked. If not, check the turbocharger.

4. INSPECT TURBINE SHAFT ROTATION

(a) Diconnect the air cleaner hose.

(b) Check that the turbine shaft rotates smoothly.

5. INSPECT ACTUATOR OPERATION (See page TC–11)

6. INSPECT TURBO PRESSURE SENSOR (See page ED–16)