TC003–04

ON–VEHICLE INSPECTION

1. INSPECT INTAKE AIR SYSTEM

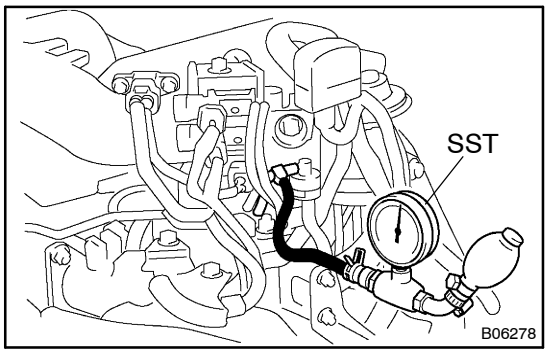
Check for leakage or clogging between the air cleaner housing and turbocharger inlet and between the turbocharger outlet and cylinder head.

- 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 turbochager 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 TURBOCHARGING PRESSURE

(a) Warm up engine.

(b) Using a 3–way connector, connect SST (turbocharger pressure gauge) to the hose leading to the intake manifold.
SST 09992–00242

(c) Press in the clutch pedal, then press the accelerator pedal down as far as it will go. Measure the turbocharging pressure at maximum speed (4,670 – 4,930 rpm).
Standard pressure:
30 – 60 kPa (0.31 – 0.61 kgf/cm^2, 4.4 – 8.7 psi)

If the pressure is less than specified, check the intake air and exhaust systems for leakage.
If there is no leakage, replace the turbocharger.
If the pressure is above specification, check if the actuator hose is disconnected or cracked. If not, replace the turbocharger.

4. INSPECT IMPELLER WHEEL ROTATION

5. INSPECT ACTUATOR OPERATION