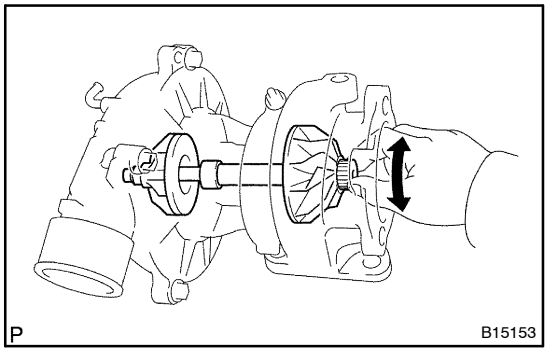
TC04A–02

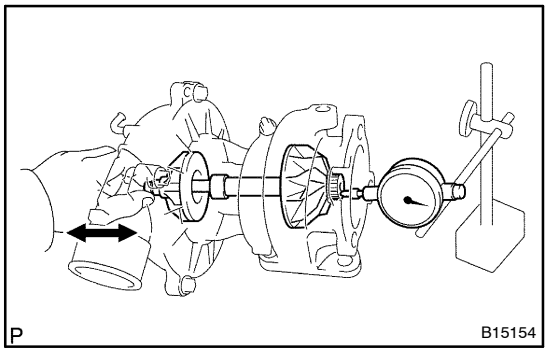
DISASSEMBLY



1. INSPECT BEARING HOUSING

(a) Check that the turbine shaft turns smoothly.

If the turbine shaft turns remarkably heavily or is stuck, replace the bearing housing. At that time, check also that the turbine housing interference with the compressor housing.



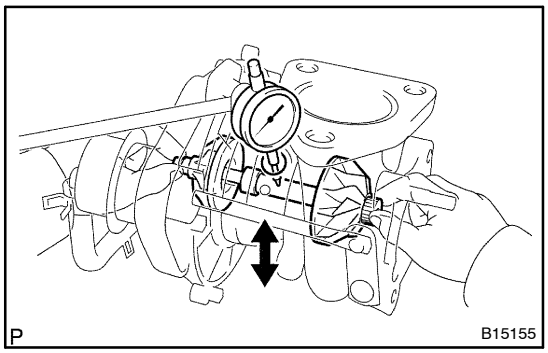
(b) Inspect the axial play of the turbine shaft.

(1) Using a dial indicator, insert the needle of the dial indicator into the exhaust side.

(2) Move the turbine shaft the in axial direction, measure the axial play of the turbine shaft.

Maximum play: 0.08 mm (0.0031 in.) or less

If the axial play is greater than the maximum, replace the bearing housing. At that time, check also that the turbine housing interference with the compressor housing.



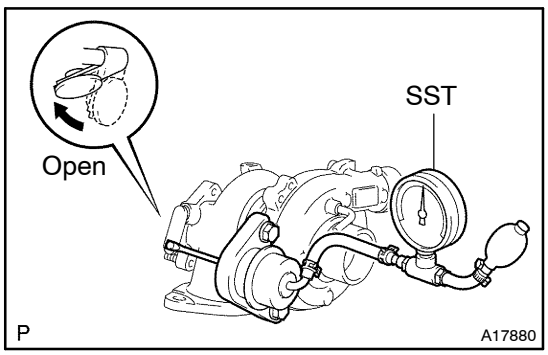
(c) Inspect the radial play of turbine shaft.

(1) Set a dial indicator to the center of the turbine shaft by inserting the dial indicator needle into the oil outlet hole

(2) Move the turbine shaft in a radial direction, measure the radial play of the turbine shaft.

Maximum play: 0.11 mm (0.0043 in.) or less

If the radial play is greater than maximum, replace the bearing housing. At that time, check also that the turbine housing interference with the compressor housing.



2. INSPECT ACTUATOR AND LINK

(a) Disconnect the actuator hose from the compressor housing.

(b) Using SST, apply 114 kPa (1.16 kg/f cm^2, 16.4 psi) of the pressure to the actuator.

SST 09992–00242

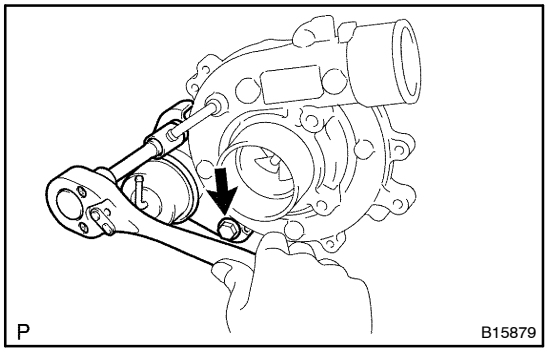
(c) Check that the actuator push rod is moved and the waste gate valve is opened.

NOTICE:

Never apply more than 147 kPa (1.50 kgf/cm^2, 21.2 psi) of pressure to the actuator.

If the operation is not as specified, replace the actuator or turbocharger.

(d) Reconnect the actuator hose to the compressor hosing.



3. REMOVE ACTUATOR AND LINK ASSY

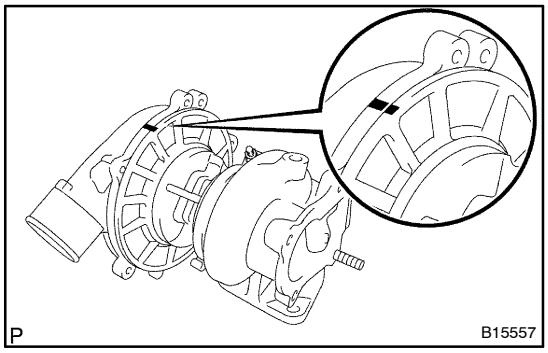
(a) Remove the actuator hose.

(b) Using SST, apply pressure to the actuator.
SST 09992–00242

NOTICE:

Never apply more than 147 kPa (1.50 kgf/cm^2, 21.2 psi) to pressure to the actuator.

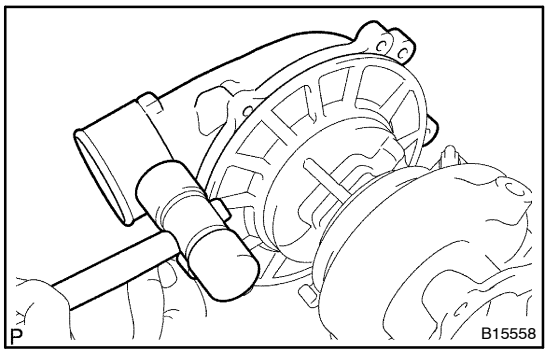
(c) Remove the 2 bolts, E–ring and actuator.



4. REMOVE COMPRESSOR HOUSING

(a) Place the matchmarks on the compressor housing and bearing housing.

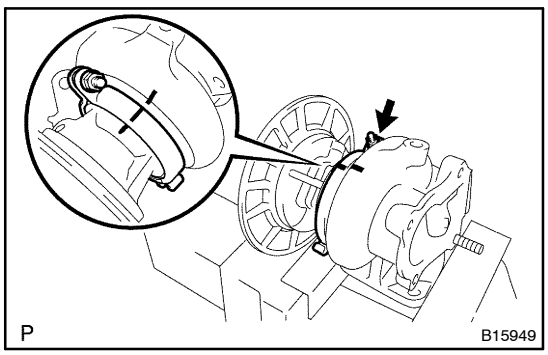
(b) Remove the 5 bolts.



(c) Tap the compressor housing by a plastic–faced hammer, remove the compressre housing.

NOTICE:

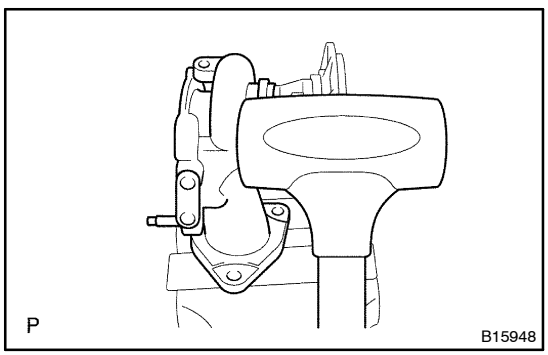
- **Remove the bearing housing as straight as possible and do not interfere the turbine wheel with the turbine housing.**
- **Do not tap the bearing housing.**



5. REMOVE TURBINE HOUSING

(a) Place the matchmarks on the V band, turbine housing and bearing housing.

(b) Remove the bolt, nut and V band.



(c) Tap the turbine housing by a plastic–faced hammer, remove the bearing housing.

NOTICE:

- **Remove the bearing housing as straight as possible and do not interfere the turbine wheel with the turbine housing.**
- **Do not tap the bearing housing.**