TC02R–03

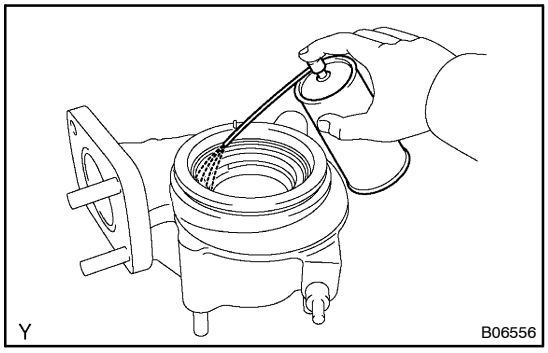
INSPECTION

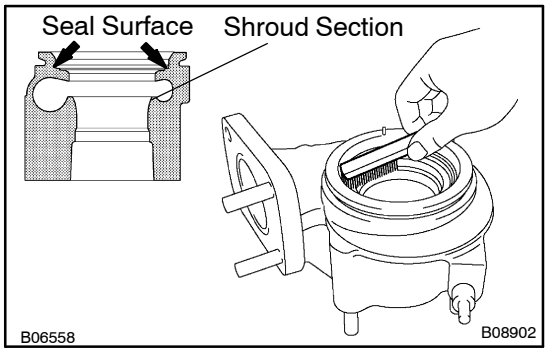
1. CLEAN AND INSPECT TURBINE HOUSING

(a) Spray the engine conditioner to the section where the carbon dirt is adhered.

NOTICE:

Be careful not to erase the matchmark of the turbine housing.





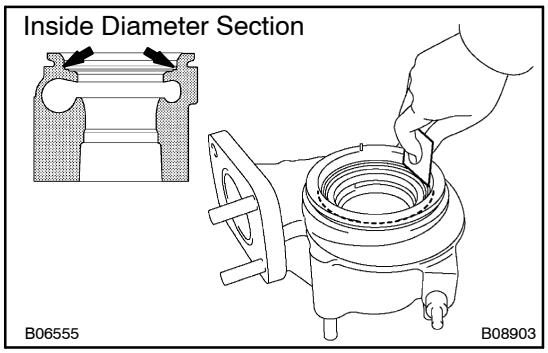
(b) Using a wire brush, remove all the carbon dirt inside the turbine housing.

NOTICE:

Clean the seal surface and shroud section shown in the illustration sufficiently. And clean the waste gate valve seat sufficiently, too.

HINT:

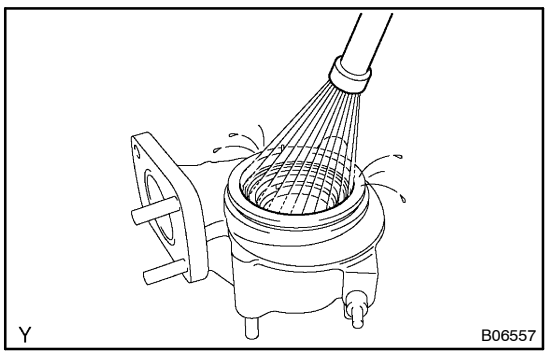
When the carbon dirt is heavily adhered, remove it using the screwdriver and the like.



(c) Clean the inside diameter section with a sandpaper (No.100) until the metal surface can be seen.

NOTICE:

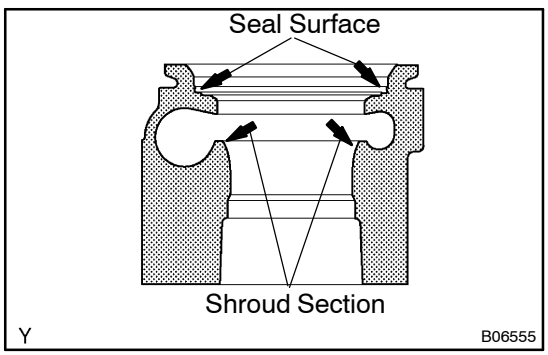
If the cleaning is not enough, installation of the bearing housing becomes harder, so clean it sufficiently.



(d) Wash with compressed air or a steam cleaner.

NOTICE:

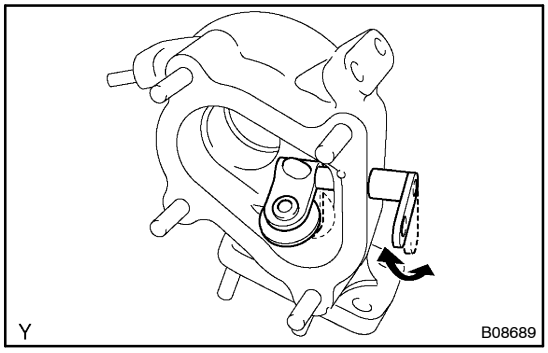
Wash sufficiently without leaving any irregular objects.



(e) Check that there is no severe damage on the seal surface with the bearing housing.

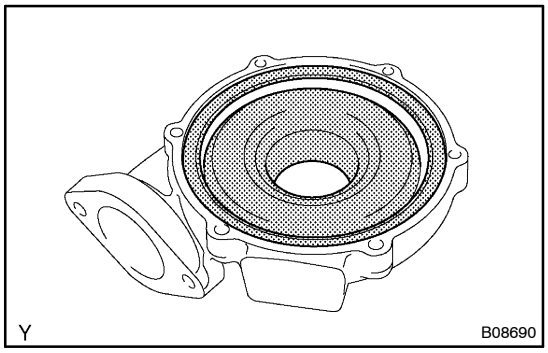
(f) Check that there is no bore made by the interference with the turbine wheel in the shroud section.

If the turbine housing is having remarkable damage or bore, replace the turbine housing and bearing housing.



(g) Move the waste gate valve link and check that it runs smoothly without sticking.

If the link is bad running, clean again. If it is bad running, even after cleaning, replace the turbine housing.



2. CLEAN AND INSPECT COMPRESSOR HOUSING

(a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the compressor housing and bearing housing.
  (1) Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces.
  (2) Thoroughly clean all components to remove all the loose material.
  (3) Using a non–residue solvent, clean both sealing surfaces.

(b) Wipe off the dirt from the inside of the housing with a shop rag.

(c) Check that there is no severe interference with the impeller wheel.

If it is having bur made by a slight interference damage, remove it with a sandpaper (No.400) and blow with compressed air.