TC048–02

INSPECTION

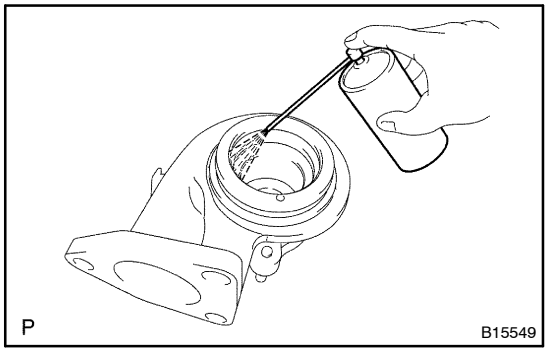
1. CLEAN PARTS

(a) Clean the turbine housing.

(1) 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.



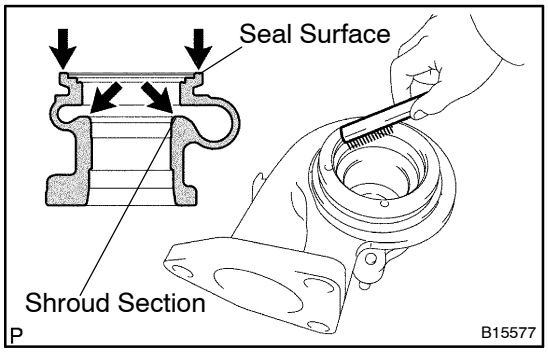
(2) Using a wire brush, remove all the carbon dirt inside the turbine housing.

NOTICE:

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

HINT:

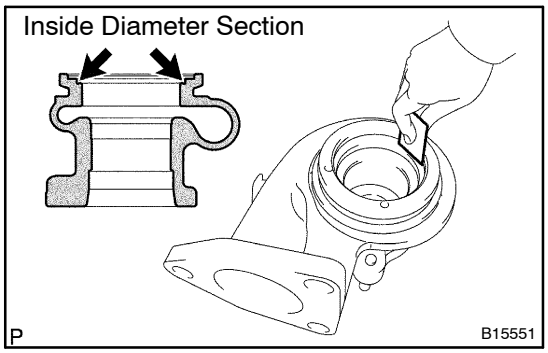
When the carbon dirt is heavily adhered, remove it using a scraper.



(3) Clean the inside diameter section with a sandpaper (No.100) until the metal surface appears.

NOTICE:

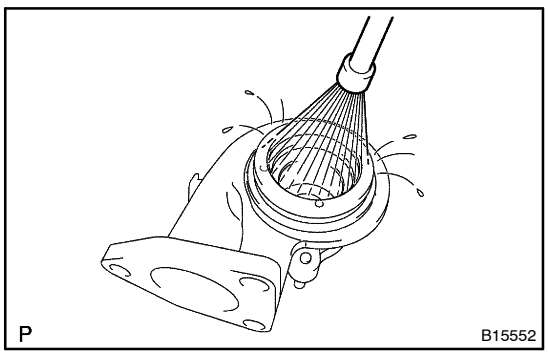
If the cleaning is not enough, installation of the bearing housing becomes harder, so clean it well.



(4) Wash the turbine housing with compressed air or a steam cleaner.

NOTICE:

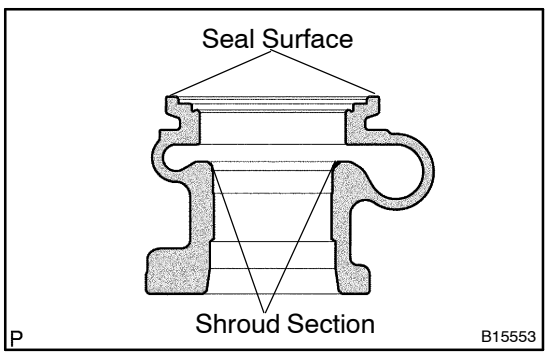
Wash the turbine housing well with out leaving any irregular objects.

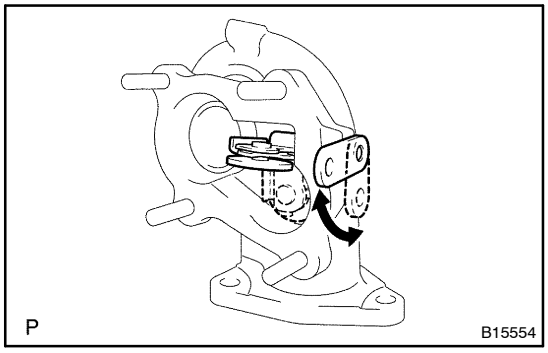


(5) Check that there is no severe damage on the seal surface.

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

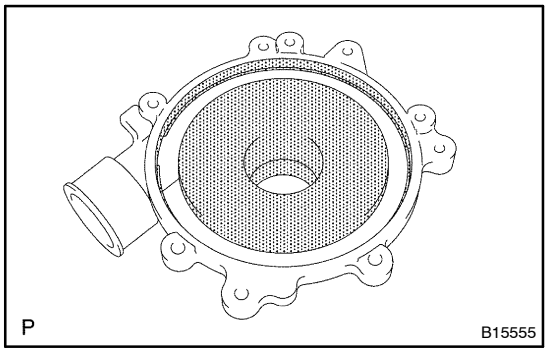
If the turbine housing has remarkable damage or bore, replace the turbocharger.





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

If the link is badly running, clean again. If it is badly running even after cleaning, replace the turbocharger.



(c) Clean the compressor housing.

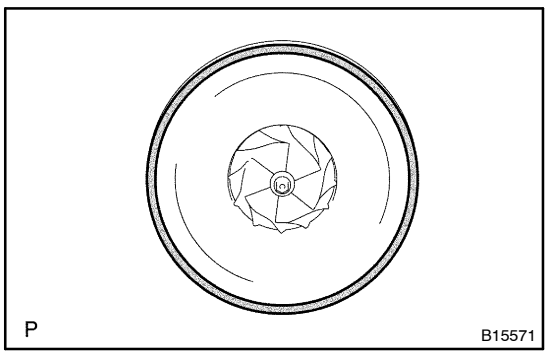
NOTICE:

Be careful not to drop any oil on the contact surfaces.

(1) Using a razor blade and gasket scraper, remove all the old packing (FIPG).
(2) Thoroughly clean all components to remove all the loose material.
(3) Using a non–residue solvent, clean both sealing surfaces.
(4) Wipe off the dirt from the inside of the housing with a shop rag.

If there is bur made by a slight interfernce damage, remove it with a sandpaper (No.400) and blow the dust with compressed air.

If the housing has heavy damage, replace the compressor housing.



(d) Clean the bearing housing.

NOTICE:

Be careful not to drop any oil on the contact surfaces.

(1) Using a razor blade and gasket scraper, remove all the old packing (FIPG).
(2) Using a non–residue solvent, clean the sealing surface.
(3) Wipe off the dirt by a shop rag.
(4) Check that there is no severe interference with the impeller wheel.