

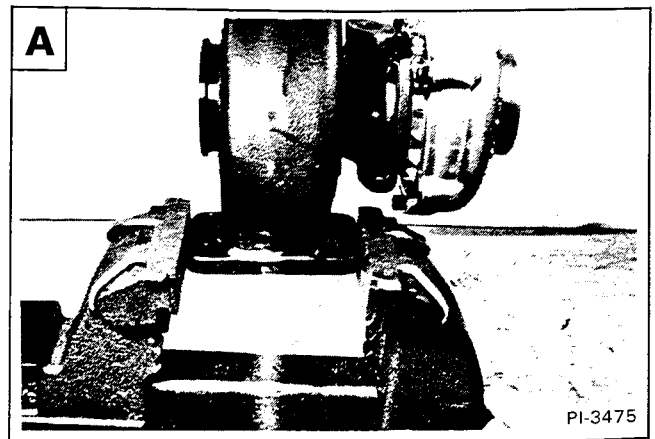
TURBOCHARGER AND EXHAUST MANIFOLD (Cont'd)

Disassembly

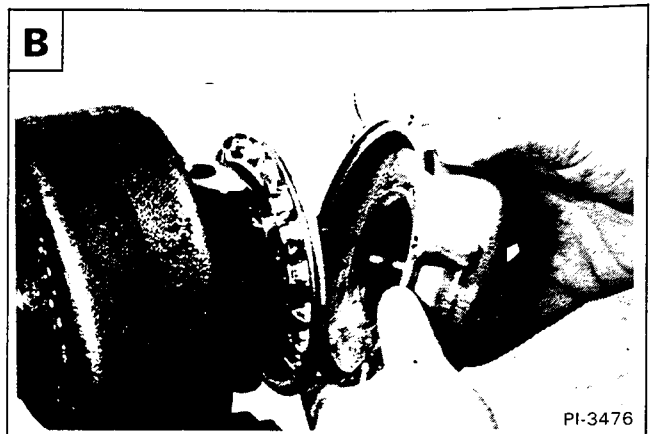
Mark the housing for correct assembly.

Install the turbocharger in a vise **A**.

Remove the compressor housing bolts, lock washers and clamp plates.

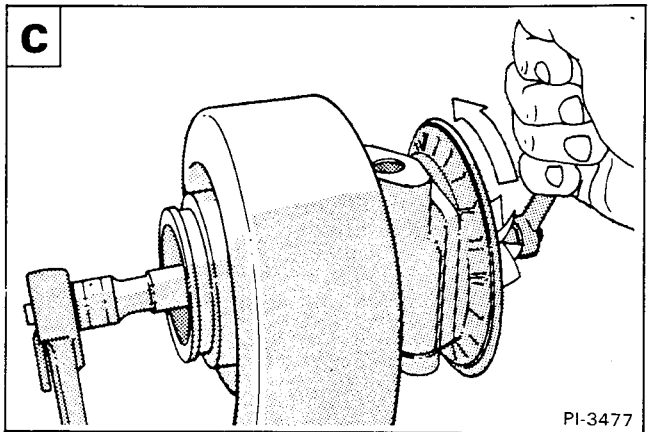


Remove the compressor housing and inspect for impeller contact **B**.



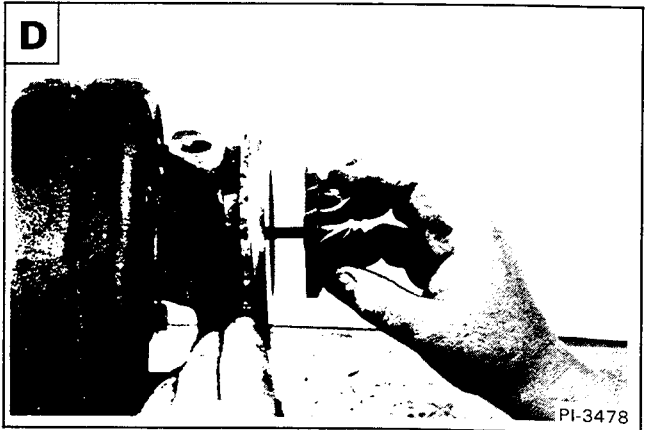
Remove the impeller nut **C**.

NOTE: Turn the nut to the right to loosen. The nut and the shaft have left hand threads.



Remove the impeller and inspect the blades for damage **D**.

NOTE: The wheel and shaft assembly is balanced as a unit. If the impeller is damaged the complete assembly must be replaced.



TURBOCHARGER AND EXHAUST MANIFOLD (Cont'd)

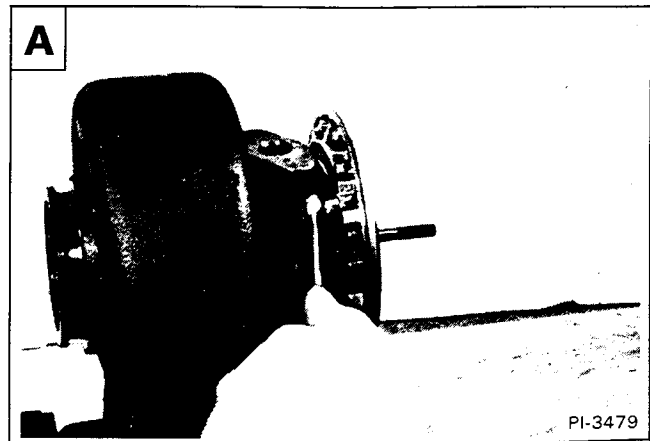
Remove the diffuser bolts and lock plates **A**.

Remove the diffuser and discard the O-ring.

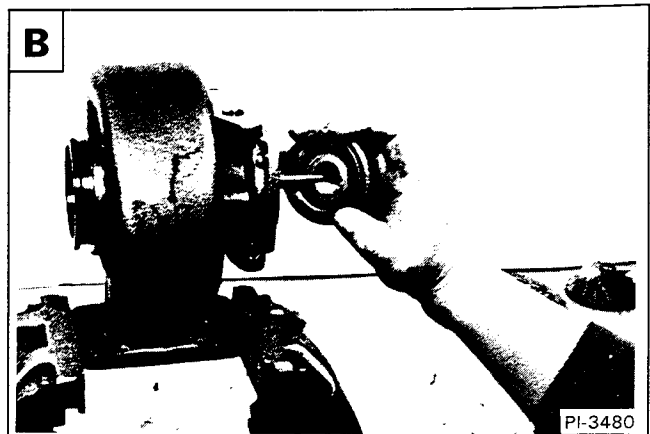
Remove the oil slinger from the diffuser.

Inspect for cracks and excessive wear. Replace as needed.

Discard the piston ring.

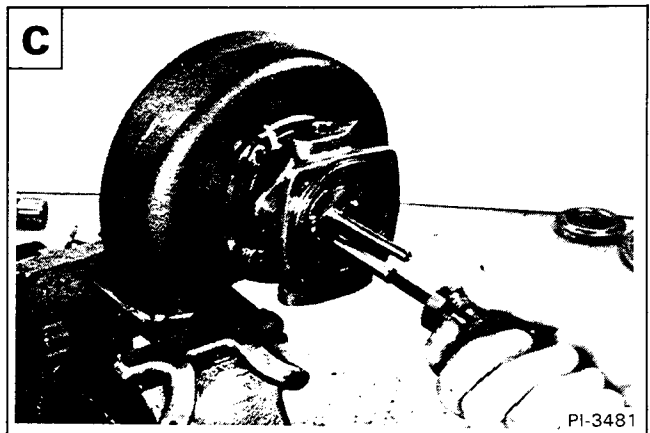


Remove the oil baffle **B**.



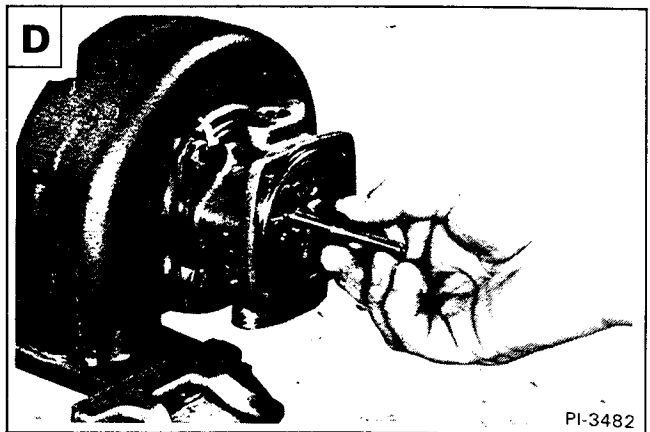
Remove the thrust bearing and retaining screws **C**.

Discard the thrust bearing.



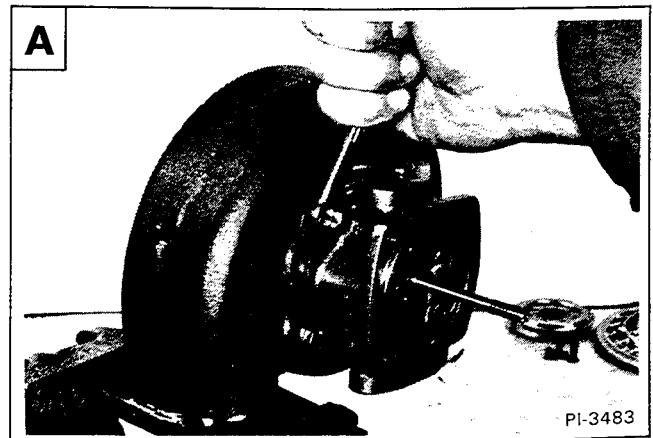
Remove the thrust collar **D**.

Inspect the collar for excessive wear. Replace as needed.

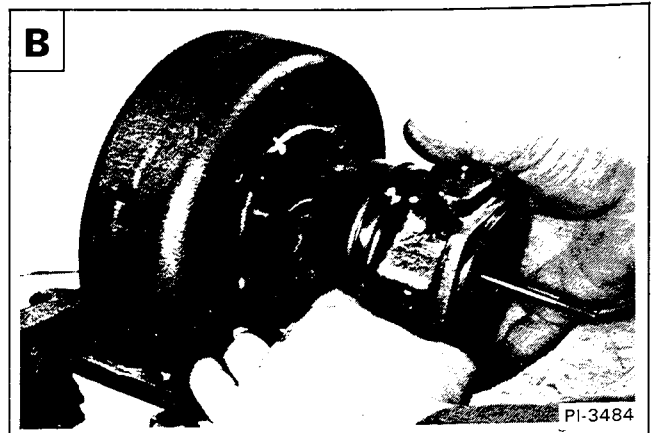


TURBOCHARGER AND EXHAUST MANIFOLD (Cont'd)

Remove the turbine housing lock plates and clamp plates **A**.



Remove the bearing housing **B**.



Remove the turbine shaft and heat shield **C**.

Inspect the turbine blades and the shaft for excessive wear. Replace as needed.



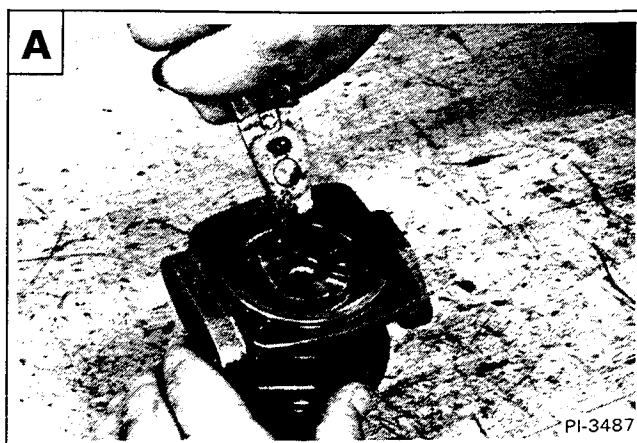
Remove and discard the sealing ring **D**.

NOTE: The wheel and shaft assembly is a balanced unit. If the turbine blades or shaft are damaged, the complete assembly must be replaced.



TURBOCHARGER AND EXHAUST MANIFOLD (Cont'd)

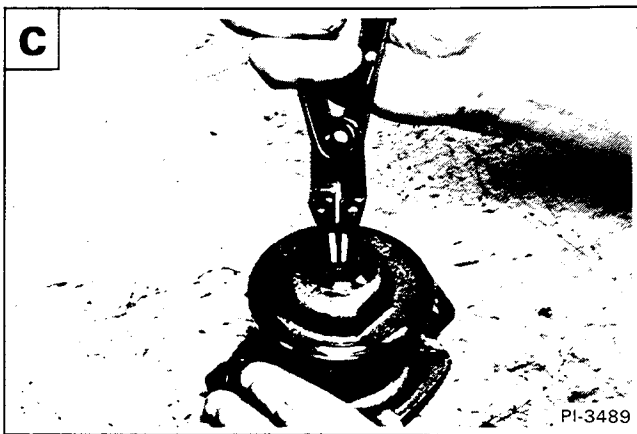
Remove and discard the outer retaining rings **A**.



Remove and discard the turbocharger shaft bearings **B**.



Remove and discard the inner snap rings **C**.



Inspection

Clean all parts in solvent using a stiff bristle, nylon brush.

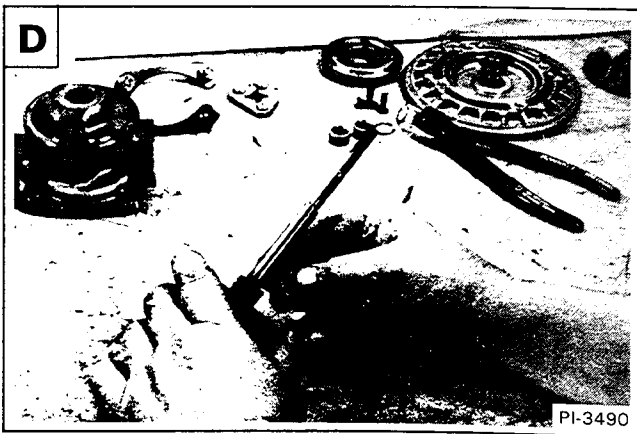
NOTE: Do Not use a wire brush on the compressor wheel.

Remove the carbon build-up from the housing with a scraper and medium grit emery cloth.

Polish the bearing surfaces with crocus cloth **D**.

After rinsing in clean solvent, blow all parts dry.

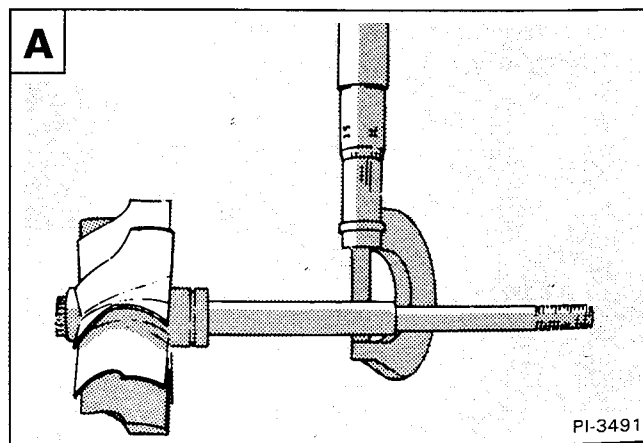
Inspect all parts for wear or damage and replace as needed.



TURBOCHARGER AND EXHAUST MANIFOLD (Cont'd)

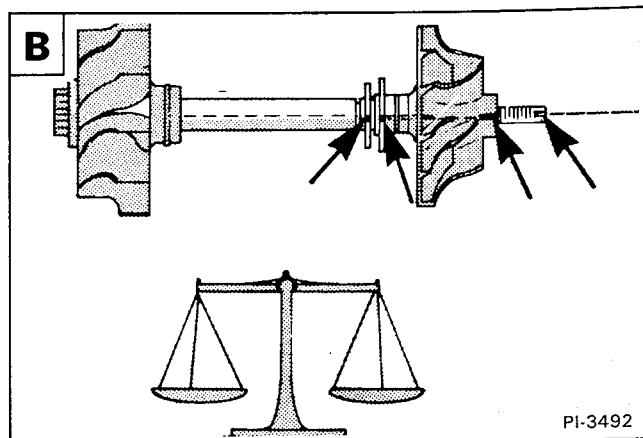
Measure the shaft bearing diameter **A**.

The minimum diameter that is acceptable is 0.432" (10.97 mm). Replace as needed.



Assembling

Align the balance marks so the wheel and shaft assembly is correctly balanced **B**.



Install the sealing ring and lubricate the groove with engine oil **C**.



Install the heat shield **D**.

