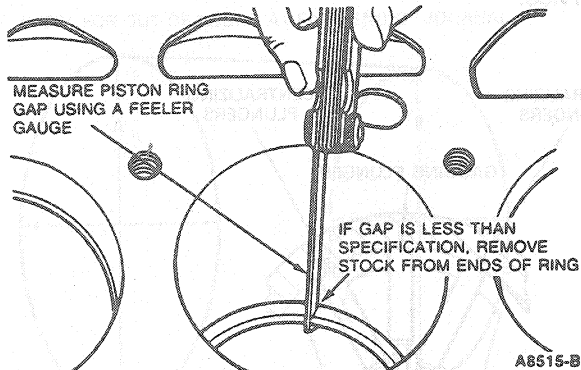


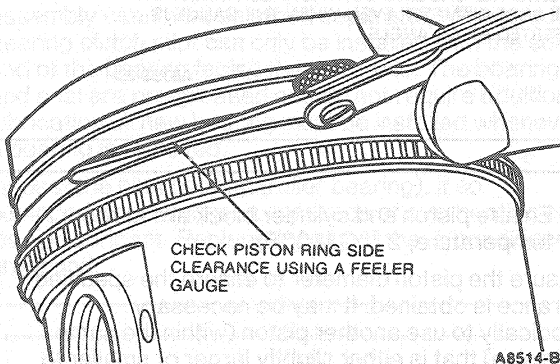
OVERHAUL (Continued)

5. Measure gap between ends of ring with a feeler gauge. If ring gap is less or greater than specified limits, try another ring set. For specifications, refer to Section 03-01A (3.0L), 03-01B (3.0L/3.2L SHO) or 03-01C (3.8L).



NOTE: If lower lands have high steps, piston should be replaced.

6. Check ring-side clearance of compression rings with a feeler gauge inserted between ring and its lower land. Gauge should slide freely around entire ring circumference without binding. Any wear that occurs will form a step at inner portion of lower land.
7. Piston rings should be staggered on the piston to insure the piston ring end gaps are not aligned.



Cleaning

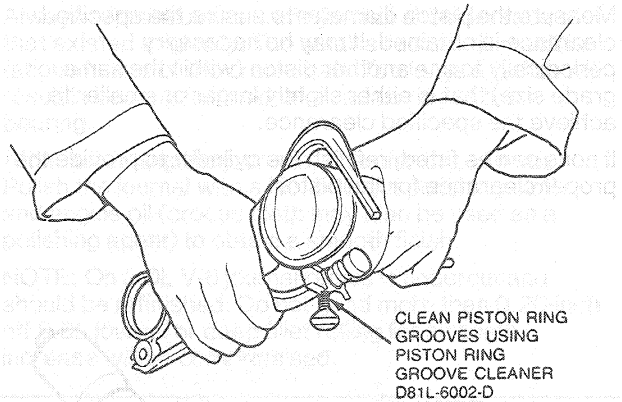
Tools Required:

- Piston Ring Groove Cleaner D81L-6002-D

CAUTION: Do not use a caustic cleaning solution or a wire brush to clean pistons.

Remove deposits from the piston surfaces. Clean gum or varnish from the piston skirt, piston pins, and rings with solvent.

Clean the ring grooves with Piston Ring Groove Cleaner D81L-6002-D or equivalent. Ensure oil ring slots (or holes) are clean.



Inspection

Carefully inspect the pistons for fractures at the ring lands, skirts and pin bosses, and for scuffed, rough or scored skirts. If the lower inner portion of the ring grooves has a high step, replace the piston. The step will interfere with ring operation and cause excessive ring-side clearance.

Spongy, eroded areas near the edge of the top of the piston are usually caused by detonation or pre-ignition. A shiny surface on the thrust surface of the piston, offset from the centerline between the piston pin holes, can be caused by a bent connecting rod. Replace pistons that show signs of excessive wear, wavy ring lands or fractures or damage from detonation or pre-ignition.

Check the piston-to-cylinder bore clearance by measuring the piston and bore diameters. Refer to Specifications for the proper clearance. Refer to Cylinder Block Inspection for the bore measurement procedure. Measure the OD of the piston and check the ring side clearance following the procedure under Fitting Pistons, Pins and Rings.

Replace piston showing signs of fracture, etching or wear. Check the piston pin fit in the piston and rod.

Check the OD of the position pin and the ID of the pin bore in the piston. Replace any piston pin or piston that is not within specification. For specifications, refer to Section 03-01A (3.0L), 03-01B (3.0L/3.2L SHO) or 03-01C (3.8L).

CAUTION: Rings should not be transferred from one piston to another, regardless of mileage.

Replace all rings that are scored, broken, chipped or cracked. Check the end gap and side clearance.

Connecting Rods

Cleaning

CAUTION: Do not use a caustic cleaning solution.

Remove the bearings from the rod and cap. Identify the bearings if they are to be used again. Clean the connecting rod in solvent, including the rod bore and the back of the inserts. Blow out all passages with compressed air.