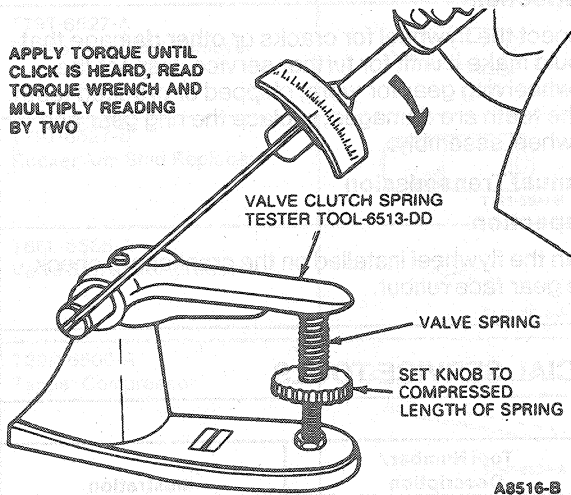


## OVERHAUL (Continued)

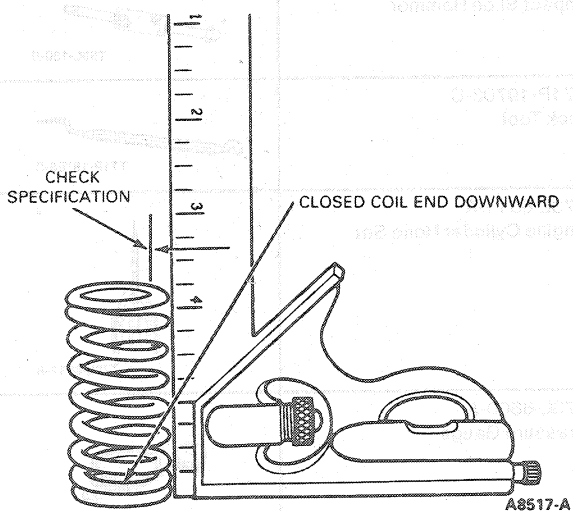
Check springs for proper pressure at the specified spring lengths using Valve / Clutch Spring Tester TOOL-6513-DD or equivalent. Weak valve springs cause poor engine performance. Replace any spring not within specification. For specifications, refer to Section 03-01A (3.0L), 03-01B (3.0L / 3.2L SHO) or 03-01C (3.8L). Manually rotating the valve spring assemblies while installed in the engine will not determine condition of valve springs.

**NOTE:** Ensure the springs are reassembled to their OWN ORIGINAL DAMPERS by pushing damper on the spring. DO NOT OPEN damper with any kind of tool in order to reassemble.



## Valve Spring Squareness

Check each spring for squareness, using a steel square and a flat surface. Stand the spring and square on end on the flat surface. Slide the spring up to the square. Revolve the spring slowly and observe the space between the top coil of the spring and the square. Refer to the illustration below.



Refer to Specifications in Section 03-01B for out-of-square limits. Follow the same procedure to check new valve springs before installation.

**NOTE:** Ensure the proper spring (color-coded) is installed.

**NOTE:** Ensure the springs are reassembled to their OWN ORIGINAL DAMPERS by pushing damper on the spring. DO NOT OPEN damper with any kind of tool in order to reassemble.

## Valve Rocker Arm

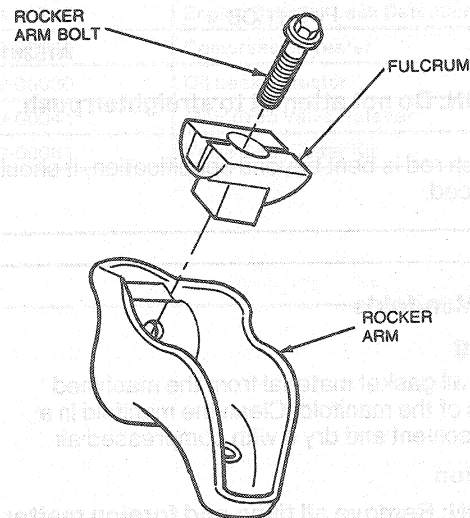
## Cleaning

Clean all parts thoroughly. Ensure all oil passages are open.

Ensure oil passage in the push rod end of the rocker arm is open.

## Inspection

Inspect the shaft and the rocker arm bore for nicks, scratches, scores or scuffs. Replace any damaged parts.



**CAUTION:** Do not attempt to true-up this surface by grinding. On pedestal mounted rocker arms, check the rocker arm pad, side rails and fulcrum seat for excessive wear, cracks, nicks or burrs. Check the rocker arm bolt for stripped or broken threads.

Inspect the pad at the valve end of the rocker arm for indications of scuffing or abnormal wear. If the pad is grooved, replace the rocker arm.

## Push Rods

## Tools Required:

- Rotunda Dial Indicator with Bracketry 014-00282