

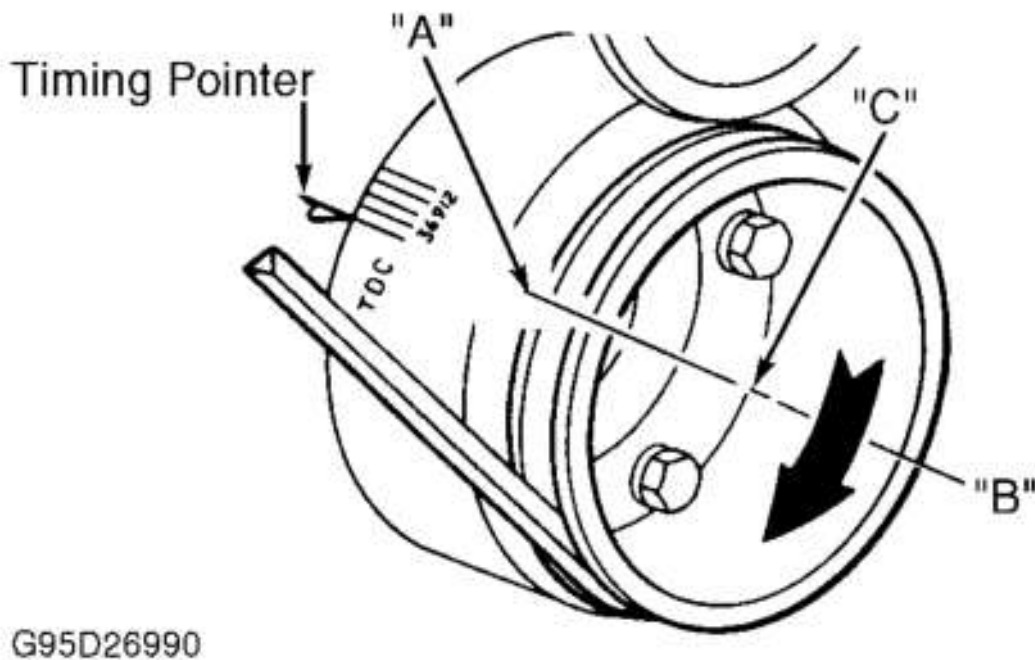
# ADJUSTMENTS

## VALVE CLEARANCE ADJUSTMENT

Hydraulic valve lifters automatically adjust stem-to-rocker arm clearance. Repeated valve and/or valve seat refacing will change stem-to-rocker arm clearance. To compensate for excessive changes in stem-to-rocker arm clearance, a longer or shorter push rod must be installed. Push rods are available in .060" (1.52 mm) longer or shorter than original.

Use following procedure to adjust valve clearance:

1. Using a remote starter (ignition off), rotate crankshaft until No. 1 piston is at TDC of compression stroke. Reference mark "A" indicates TDC. With No. 1 piston at TDC, mark references "B" and "C", 90 degrees apart. See Fig. 1.



**Fig. 1: Identifying Crankshaft Positions For Valve Adjustment**  
Courtesy of FORD MOTOR CO.

2. Slowly bleed lifter down (until bottomed) using Tappet Bleed Down Wrench (T71P-6513-B) on appropriate cylinder. See VALVE CLEARANCE ADJUSTMENT table. With lifter plunger bottomed, use a feeler gauge to measure clearance between rocker arm and valve stem tip. See VALVE LIFTERS table under ENGINE SPECIFICATIONS.
3. If clearance is insufficient, install .060" (1.52 mm) undersize push rod. If clearance is excessive, install .060" (1.52 mm) oversize push rod. Check and/or adjust valve clearance on proper cylinders in relation to crankshaft position. See VALVE CLEARANCE ADJUSTMENT table.

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<b>Crankshaft Position</b>	<b>Check Intake No.</b>	<b>Check Exhaust No.</b>
"A"	1, 4, 8	1, 3, 7
"B"	3, 7	2, 6
"C"	2, 5, 6	4, 5, 8

**CAUTION:** When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See COMPUTER RELEARN PROCEDURES article in GENERAL INFORMATION before disconnecting battery.