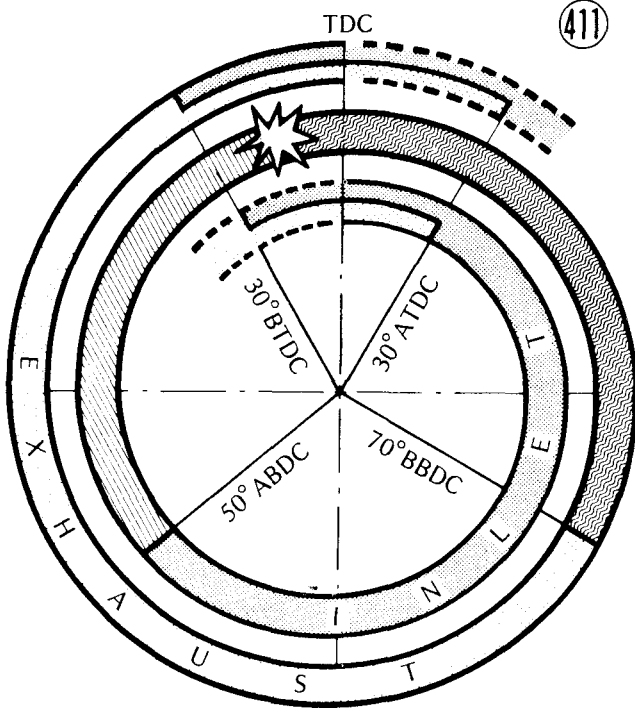


120 MAINTENANCE

Valve Timing



Cam Height Measurement

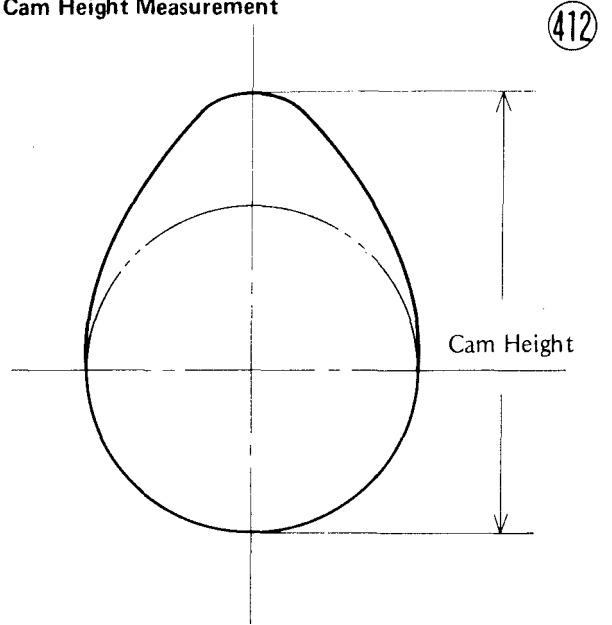


Table 13 Cam Height

	Standard	Service Limit
Inlet	41.21 ~41.39 mm	41.15 mm
Exhaust	42.26~42.44 mm	42.20 mm

Cam wear

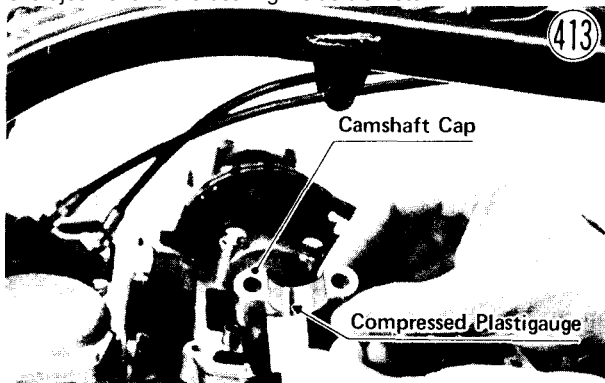
BDC

Remove the camshafts, and measure the height of each cam with a micrometer. If the cams are worn down past the service limit, replace the camshafts.

the amount it is compressed and widened when the parts are assembled.

Remove the camshafts, and wipe each journal, camshaft cap, and cylinder head bearing surface clean of dirt and oil. Install the camshafts so that no cam lobe is pushing down a valve. This is to prevent the camshafts from turning during clearance measurement. Cut strips of plastigauge to journal width. Place a strip on each journal parallel to the camshaft and so that the plastigauge will be compressed between the journal and the camshaft cap. Install the camshaft caps, tightening the bolts in the correct sequence with the correct amount of torque (Pg. 39).

Remove the camshaft caps, and measure the plastigauge width to determine the clearance between each journal and the cylinder head cover. If a clearance exceeds the service limit, measure the diameter of the camshaft journal and the bearing inside diameter.



Journal, bearing wear

The journal diameter is measured. The	Standard	Service Limit
	24.94-24.96 mm	24.90 mm

Table 14 Camshaft Journal/Cylinder Head Cover Clearance (Bushing Clearance)

Standard	Service Limit
0.040-0.081 mm	0.17 mm

Measure the diameter of each camshaft journal with a micrometer. If a diameter is less than the service limit, replace the camshaft.

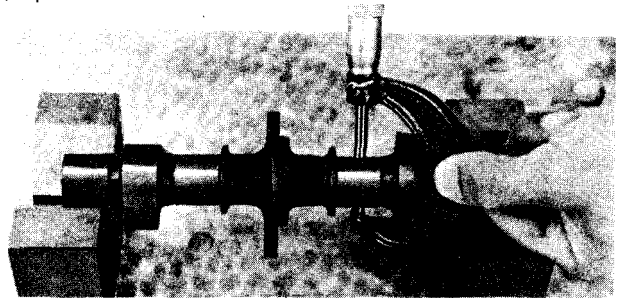


Table 15 Camshaft Journal Diameter