MAINTENANCE 121

Remove the camshafts, and tighten the camshaft

caps with 1.1 \sim 1.3 kg-m (95 \sim 113 in-lbs) of torque.

Measure the vertical inside diameter of each bearing

with a cylinder gauge. If it exceeds the service limit,

replace the cylinder head and camshaft caps as a set since the camshaft caps are machined together with

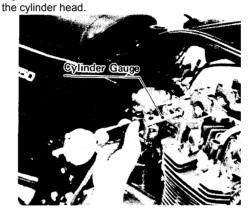


Table 16 Camshaft Bearing Inside Diameter

Standard		Service Limit
25.000~	25.021 mm	25.06 mm

Camshaft run out

Remove the camshafts, and set each shaft in V blocks at the outside journals as shown in the figure. Measure

the runout with a dial gauge set against the inside

journal. If the runout exceeds the service limit,

replace the camshaft

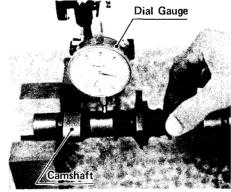


Table 17 Camshaft Runout

Standard	Service Limit
under 0.02 mm	0.1 mm

Camshaft chain, sprocket, and chain guide wear

cause noise, accelerate wear, and could possibly lead to serious damage to the engine. If the chain

tension can no longer be adjusted by the chain

tensioner,

either the camshaft chain or the chain guides must be replaced.

Camshaft chain wear

Remove the camshaft chain, hold the chain taut with a force of about 5 kg in some manner such as the one shown in Fig. 417, and measure a 20link length. If the chain has lengthened beyond the service limit, replace it with a new one.

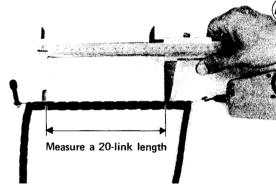


Table 18 Camshaft Chain Length

Standard	Service Limit
160.0 mm	162.4 mm

Chain quide wear

Remove the chain guides and sprocket, and inspect them visually. Replace a guide if the rubber or any

other portion is damaged.

Measure the depth of the grooves where the chain links run. Replace a guide if the wear exceeds the service limit.

Chain Guide Rubber Wear

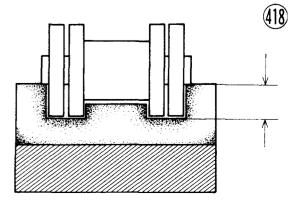


Table 19 Camshaft Chain Guide Wear

Service Limit	
Upper	2 mm
Front Upper	2 mm
Front Lower	2 mm
Rear	4 mm