

CRANKSHAFT

Separate the crankcase halves (page 11-3).

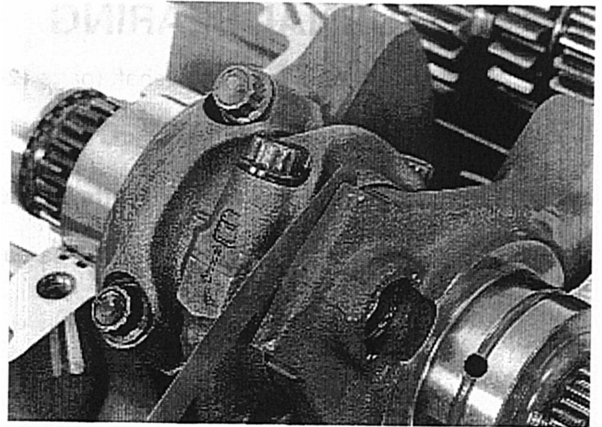
SIDE CLEARANCE INSPECTION

Measure the connecting rod side clearance.

SERVICE LIMIT: 0.40 mm (0.016 in)

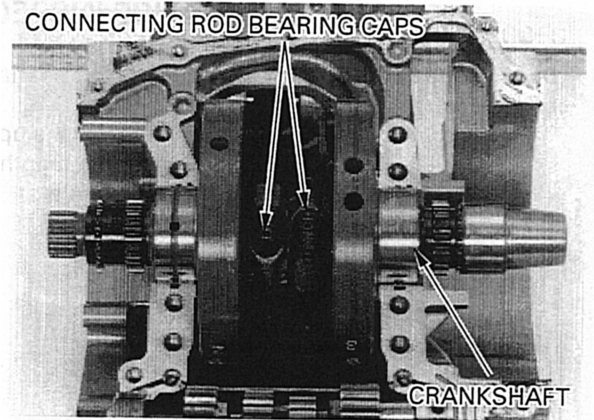
If the clearance exceeds the service limit, replace the connecting rod.

Recheck and if still out of limit, replace the crankshaft.



REMOVAL

Remove the connecting rod bolts and bearing caps.
Remove the crankshaft.



INSPECTION

Place the crankshaft on V-blocks.

Rotate the crankshaft two revolutions and read the runout with a dial indicator.

Divide the total indicator reading in half to get the actual runout.

SERVICE LIMIT: 0.10 mm (0.004 in)

INSTALLATION

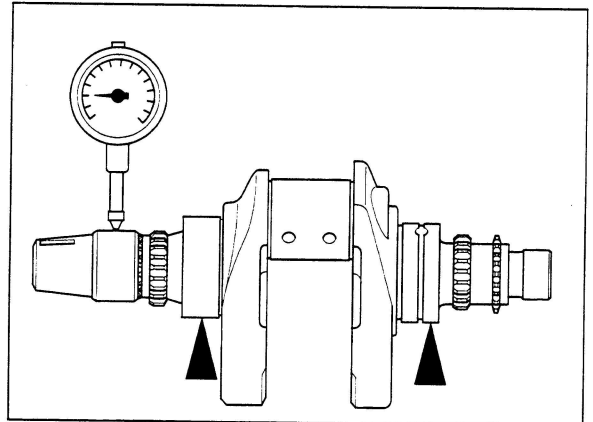
Apply molybdenum oil solution to the main journal bearing sliding surfaces on the upper crankcase, and crankpin bearing sliding surfaces on the connecting rods and bearing caps.

Install the crankshaft onto the upper crankcase.

Set the connecting rods onto the crankpin.

Install the bearing caps, aligning the dowel pins with the holes in the connecting rods.

Apply oil to new connecting bolt threads and seating surfaces and install the bolts.



CAUTION:

The connecting rod bolts cannot be reused. Once the connecting rod bolts have been loosened replace them with new ones.

Tighten the bolts in 2 or 3 steps alternately.

TORQUE: 29 N·m (3.0 kgf·m , 22 lbf·ft) + 120°

Assemble the crankcase halves (page 11-10).

