

Kubota

and exhaust. A 15 degree stone or cutter may be used to narrow valve-seat if necessary.

Refer to the following specifications:

Rocker arm shaft OD	11.973-11.984 mm (0.4714-0.4718 in.)
Rocker arm ID	12.000-12.018 mm (0.4725-0.4731 in.)
Rocker arm-to-shaft clearance	0.016-0.045 mm (0.0006-0.0018 in.)
Wear limit	0.15 mm (0.006 in.)
Valve stem OD—	
Intake	6.960-6.975 mm (0.2740-0.2746 in.)
Exhaust	7.940-7.960 mm (0.3126-0.3134 in.)
Valve guide ID—	
Intake	7.000-7.015 mm (0.2756-0.2762 in.)
Exhaust	8.000-8.015 in. (0.3150-0.3155 in.)
Valve stem-to-guide clearance—	
Intake	0.025-0.055 mm (0.0010-0.0022 in.)
Wear limit	0.10 mm (0.004 in.)
Exhaust	0.040-0.075 mm (0.0016-0.0029 in.)
Wear limit	0.10 mm (0.004 in.)
Valve seat width—	
Intake and exhaust	1.1 mm (0.044 in.)
Maximum allowable	1.2 mm (0.047 in.)
Valve spring free length	45.5-45.8 mm (1.791-1.803 in.)
Minimum allowable	45.0 mm (1.772 in.)

Valve guides are renewable. Press old guide out toward top of cylinder head. Apply engine oil to new guide and use a suitable driver to press guide into cylinder head until stop ring on guide contacts cylinder head.

To reinstall cylinder head assembly, reverse the removal procedure. Make sure that washers (A—Fig. K107) are installed under the two cap screws indicated in Fig. K107. Tighten cylinder head screws (B) and flange screw (C) in three steps following tightening sequence shown in Fig. K107. Specified final torque for cap screws (B) is 41-50 N-m (31-37 ft.-lbs.) and for flange screw (C) is 18-23 N-m (13-17 ft.-lbs.). Adjust valve clearance as outlined in MAINTENANCE section.

BALANCER SHAFTS. Engine is equipped with two counter-rotating balancer shafts. To remove balancer shafts, unscrew crankcase cover screws

and tap cover with a plastic mallet to separate cover (1—Fig. K108) from crankcase. Withdraw balancer shafts (3).

When installing balancer shafts, be sure to align alignment marks (A—Fig. K108A) on balancer gears (3) and crankshaft gear (2). When installing crankcase cover, be sure tang on oil pump shaft engages slot in end of balancer shaft. Tighten crankcase cover screws evenly to 14-19 N-m (10-14 ft.-lbs.).

CONNECTING ROD. Connecting rod rides directly on crankshaft journal. Connecting rod and piston are removed as an assembly after first removing cylinder head, crankcase cover, balancer gear shafts and connecting rod cap. Remove carbon or ring ridge (if present) from top of cylinder, then push piston and connecting rod out top of cylinder. Remove piston pin retaining rings and push pin out of piston and connecting rod.

Connecting rod small-end inside diameter should be 20.015-20.025 mm (0.7889-0.7884 in.) and wear limit is 20.07 mm (0.790 in.). Connecting rod big-end standard inside diameter should be 33.500-33.525 mm (1.3189-1.3199 in.). Crankpin standard inside diameter



Fig. K107—When tightening cylinder head bolts, follow sequence shown. Refer to text.

Fig. K108—View of engine timing gears.
1. Crankcase cover
2. Crankshaft
3. Balancer gears
4. Camshaft

YARD & GARDEN TRACTOR

should be 33.475-33.485 mm (1.3179-1.3183 in.). Desired clearance between connecting rod big end and crankpin is 0.025-0.050 mm (0.0009-0.0020 in.), maximum allowable clearance is 0.10 mm (0.004 in.). Connecting rod is available with 0.25 and 0.50 mm undersize big end.

Measure side clearance of connecting rod on crankshaft using a feeler gage. Specified side clearance is 0.4-1.1 mm (0.016-0.043 in.). Connecting rod should be removed if side clearance exceeds 1.5 mm (0.059 in.).

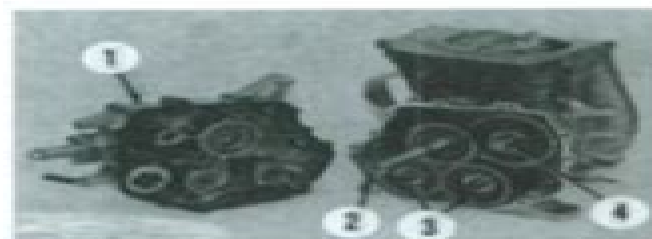
When assembling connecting rod to piston, arrow (2—Fig. K109) on piston crown must be aligned with machined surfaces (1) on connecting rod. Insert piston and connecting rod in cylinder so



Fig. K108A—Timing marks (A) on crankshaft gear (2) and balancer gears (3) must be aligned as shown.



Fig. K109—Assemble piston to connecting rod so arrow mark (2) on piston crown is aligned with machined surface (1) on connecting rod and cap.



Kubota Service Manual U 5

Arturo Cuomo

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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