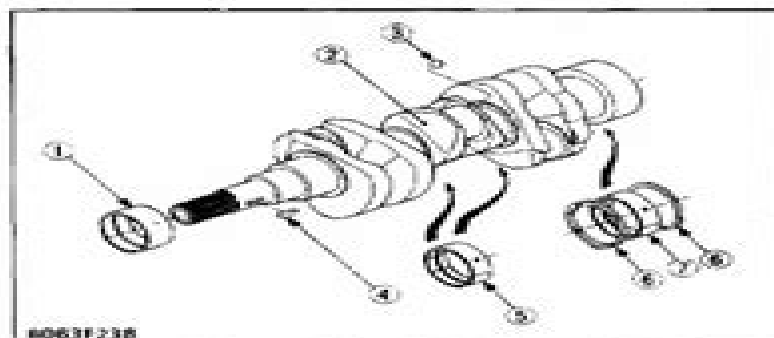


### (3) Crankshaft



The crankshaft with the connecting rod converts the reciprocating motion of the piston into rotating motion.

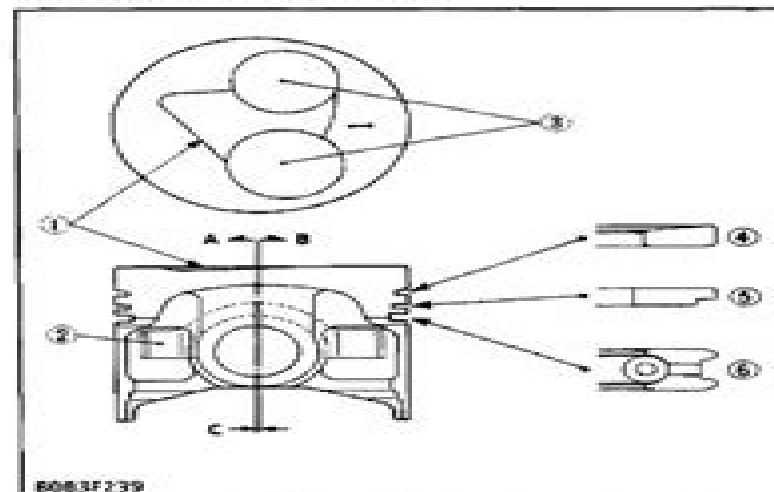
The crankshaft (2) has oil passages drilled so that oil can flow from the main bearings to the crank pin bearings.

The front journal is supported by a sleeve type bearing (crankshaft bearing 1) (1), the intermediate journal by a split type (crankshaft bearing 3) (5), and the rear by a split type (crankshaft bearing 2) (7) with thrust bearings (6).

- (1) Crankshaft Bearing 1
- (2) Crankshaft
- (3) Steel Ball
- (4) Feather Key

- (5) Crankshaft Bearing 3
- (6) Thrust Bearing
- (7) Crankshaft Bearing 2

### (4) Piston and Piston Ring



The piston is made of an aluminum alloy. Provided on top of the piston are a valve recess (1) to allow smooth ejection of the exhaust gas from combustion chamber.

The piston pin is positioned off the center to the thrust side, which prevents a swing of the piston at the top and bottom dead centers, reducing operation noise.

The piston has a steel strut (2) inside to reduce the increase of the piston diameter.

The top compression ring (4) is of the key stone type which can stand against heavy load, and the sliding surface to the cylinder wall is shaped into barrel face which is well fitted to the wall and plated with hard chrome.

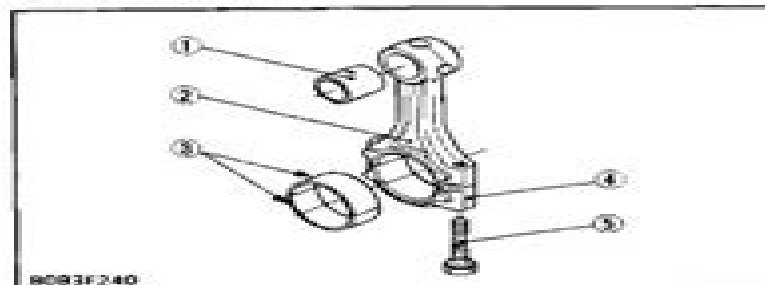
The second compression ring (5) is of the under-cut type which is effective to prevent oil rising.

Oil ring (6) is effective to scrape oil because it is closely fitted to the cylinder wall by a coil expander and the upper and lower ends of its sliding surface are cut diagonally to raise face pressure to the cylinder walls.

- (1) Fan-shaped Concave
- (2) Steel Strut
- (3) Valve Recess
- (4) Top Compression Ring
- (5) Second Compression Ring
- (6) Oil Ring

- [A] Piston Pin Center Line
- [B] Piston Center Line
- [C] Piston Pin Offset

### (5) Connecting Rod



The connecting rod (2) is used to connect the piston with the crankshaft. The big end of the connecting rod has a crank pin bearing (3) (split type) and the small end has a small end bushing (1) (solid type).

- (1) Small End Bushing
- (2) Connecting Rod
- (3) Crank Pin Bearing

- (4) Connecting Rod Cap
- (5) Connecting Rod Screw

# Kubota G1800 Owners Manual

**Jicheng Xie**



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