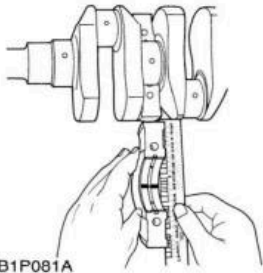


WSM

WORKSHOP MANUAL
TRACTOR

BX1830 BX2230

Kubota



3TMABAB1P081A

Oil Clearance between Crankshaft Journal and Crankshaft Bearing 2 (Crankshaft Bearing 3)

1. Put a strip of plastigage (Code No. 07909-30241) on the center of the journal.
2. Install the bearing case and tighten the bearing case screws 1 to the specified torque, and remove the bearing case again.
3. Measure the amount of the flattening with the scale, and get the oil clearance.
4. If the oil clearance exceeds the allowable limit, replace the crankshaft bearing 2 (crankshaft bearing 3).
5. If the same size bearing is useless because of the crankshaft journal wear, replace it with an undersize one referring to the table and figure.

■ **NOTE**

- **Be sure not to move the crankshaft while the bearing case screws are tightened.**

[D722]

| | | |
|--|-----------------|---|
| Oil clearance between crankshaft journal and crankshaft bearing 2 (Crankshaft bearing 3) | Factory spec. | 0.028 to 0.059 mm 0.00110 to 0.00232 in. |
| | Allowable limit | 0.20 mm 0.0079 in. |

| | | |
|---|---------------|---|
| Crankshaft journal O.D. (Flywheel side) | Factory spec. | 43.978 to 43.993 mm 1.73142 to 1.73201 in. |
| Crankshaft bearing 2 I.D. | Factory spec. | 43.984 to 44.026 mm 1.73165 to 1.73331 in. |

| | | |
|--|---------------|---|
| Crankshaft journal O.D. (Intermediate) | Factory spec. | 39.934 to 39.950 mm 1.57221 to 1.57284 in. |
| Crankshaft bearing 3 I.D. | Factory spec. | 39.978 to 39.993 mm 1.57394 to 1.57453 in. |

[D902]

| | | |
|--|-----------------|---|
| Oil clearance between crankshaft journal and crankshaft bearing 2 (Crankshaft bearing 3) | Factory spec. | 0.028 to 0.059 mm 0.00110 to 0.00232 in. |
| | Allowable limit | 0.20 mm 0.0079 in. |

| | | |
|---|---------------|---|
| Crankshaft journal O.D. (Flywheel side) | Factory spec. | 43.934 to 43.950 mm 1.72968 to 1.73031 in. |
| Crankshaft bearing 2 I.D. | Factory spec. | 43.978 to 43.993 mm 1.73142 to 1.73201 in. |

| | | |
|--|---------------|---|
| Crankshaft journal O.D. (Intermediate) | Factory spec. | 43.934 to 43.950 mm 1.72968 to 1.73031 in. |
| Crankshaft bearing 3 I.D. | Factory spec. | 43.978 to 43.993 mm 1.73142 to 1.73201 in. |

000004088E

TRAVELLING GEAR SHIFT SECTION

| Symptom | Probable Cause | Solution | Reference Page |
|--------------------------------|--|----------|----------------|
| Noise from Transmission | ● Transmission oil insufficient | Refill | 2-S13 |
| | ● Gear worn or broken | Replace | — |
| | ● Bearings worn | Replace | — |
| Gear Slip Out of Mesh | ● Shift fork spring tension insufficient | Replace | 2-S25 |
| | ● Shift fork or shifter worn | Replace | 2-S25 |
| | ● Shift fork bent | Replace | 2-S25 |

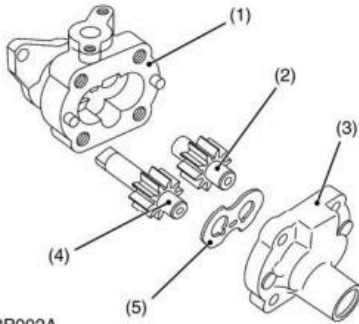
0000004151E

DIFFERENTIAL GEAR SECTION

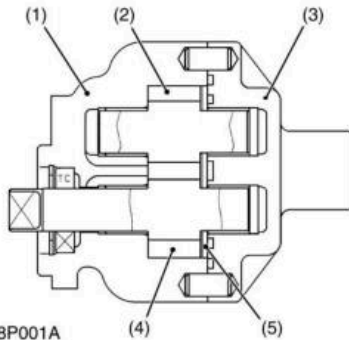
| | | | |
|--|--|---------------------|------------|
| Excessive or Unusual Noise at All Time | ● Improper backlash between spiral bevel pinion and bevel gear | Adjust | 2-S37 |
| | ● Improper backlash between differential pinion and differential side gear | Adjust | 2-S36 |
| | ● Bearing worn | Replace | — |
| | ● Insufficient or improper type of transmission fluid used | Replenish or change | G-8, 2-S13 |
| Noise while Turning | ● Differential pinions or differential side gears worn or damaged | Replace | 2-S28 |
| | ● Differential lock binding (does not disengaged) | Replace | 2-S28 |
| | ● Bearing worn | Replace | — |
| Differential Lock Can Not Be Set | ● Differential lock shift fork damaged | Replace | 2-S28 |
| | ● Differential lock shifter mounting pin damaged | Replace | 2-S28 |
| | ● Differential lock pin damaged | Replace | 2-S28 |
| Differential Lock Pedal Does Not Return | ● Differential lock pedal return spring weaken or damaged | Replace | 2-S18 |
| | ● Differential lock fork shaft rusted | Repair | 2-S28 |

0000004152E

2. HYDRAULIC PUMP



3TAAAAB8P002A



3TRAAAAB8P001A

The hydraulic pump is composed of the casing (1), cover (3), side plate (5), and two spur gears (drive gear (4) and driven gear (2)) that are in mesh.

Hydraulic pump is driven by the pump drive shaft in the transmission case.

Maximum displacement is as follows.

| Displacement | Engine speed | Condition |
|---|---------------------------------|------------|
| 21.0 L/min. 5.5 U.S.gal/min. 4.6 Imp.gal/min. | At 3000 min ⁻¹ (rpm) | at no load |

- (1) Casing
- (2) Drive Gear
- (3) Cover
- (4) Driven Gear
- (5) Side Plate

000004150E

Full Version Available

Kubota BX1830 Tractor Workshop Manual

This is a short preview. The complete manual contains all chapters, wiring diagrams, torque specifications and full service procedures.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/kubota-bx1830-tractor-workshop-manual/>