

# WSM

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WORKSHOP MANUAL  
**TRACTOR, ROTARY  
MOWER**

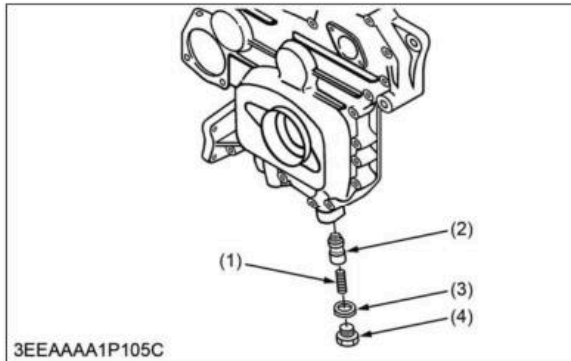
**BX1880-AU, BX2380-AU,  
BX2680-AU, RCK60B-23BX,  
RCK54-23BX, RCK48-18BX,  
RCK60D-26BX, RCK54D-26BX**

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**Kubota**

### 2.5 Function of relief valve

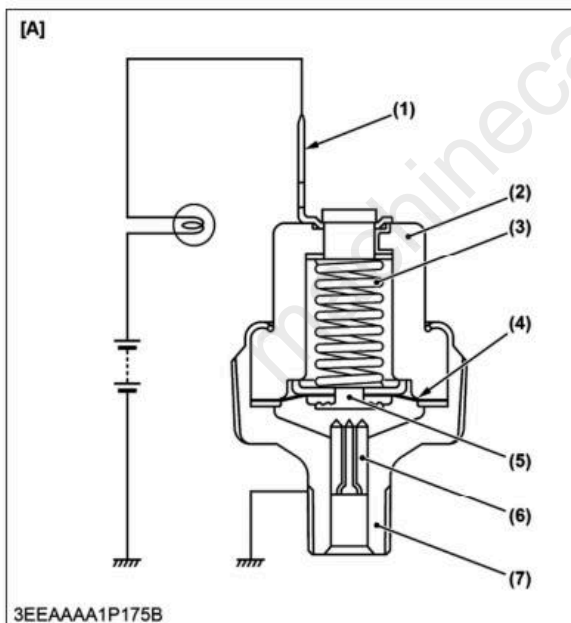
The relief valve prevents the damage of the lubricating system due to high oil pressure.



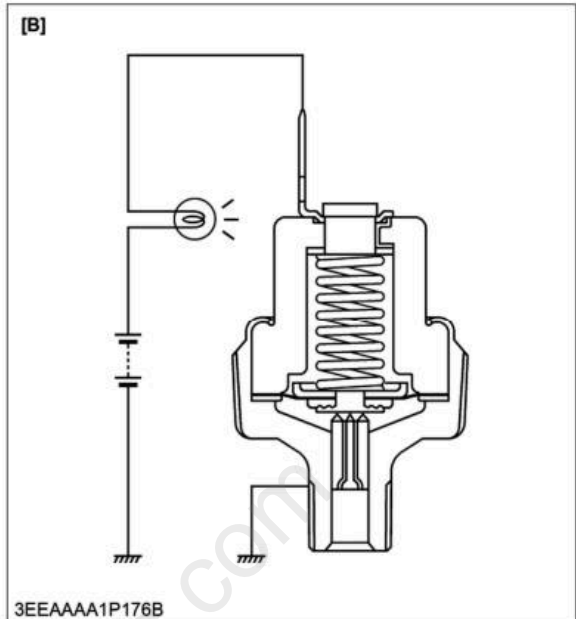
- (1) Spring
- (2) Poppet
- (3) Gasket
- (4) Plug

The valve is closed when the spring tension is greater than the oil pressure at the inlet. The spring tension holds poppet (2) securely in position. The valve opens when the oil pressure at the inlet exceeds that of the spring (1). This pushes the poppet off the inlet hole and oil flows through the valve.

### 2.6 Function of oil pressure switch



3EEAAA1P175B



3EEAAA1P176B

- (1) Terminal
- (2) Insulator
- (3) Spring
- (4) Diaphragm
- (5) Contact rivet
- (6) Contact
- (7) Oil switch body
- [A] At proper oil pressure
- [B] At lower oil pressure

The oil pressure switch is mounted on the cylinder block and is led to the lubricating oil passage. When the oil pressure falls below the specified value, the oil pressure-warning lamp lights.

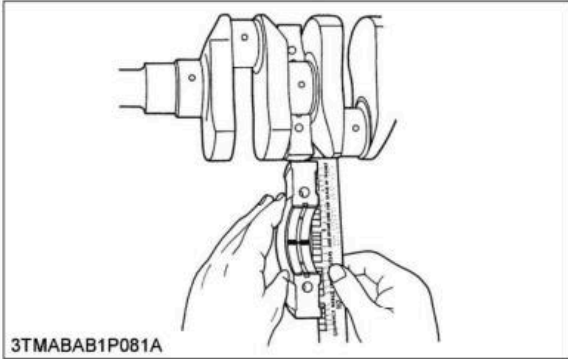
#### [A] At proper oil pressure

When the engine is started and as the proper oil pressure builds, the diaphragm (4) is pushed up. This separates the contact rivet (5) and breaks the circuit, causing the lamp to go out.

#### [B] At lower oil pressure, 49 kPa (0.50 kgf/cm<sup>2</sup>, 7.1 psi) or less

If the oil pressure drops, the resulting deflection of the diaphragm (4) will close the contact rivet (5) and again complete the circuit. The lighted lamp warns that the pressure of the lubricating system has dropped below the pressure setting.

| Undersize   | 0.20 mm<br>0.0079 in.                                       | 0.40 mm<br>0.016 in.  |
|---|---|---|
| Dimension D   | 51.721 to<br>51.740 mm dia.<br>2.0362 to 2.0370 in.<br>dia. | 51.521 to<br>51.540 mm dia.<br>2.0284 to 2.0291 in.<br>dia. |
| The crankshaft journal must be fine-finished to higher than Max. = 0.8S |   |   |



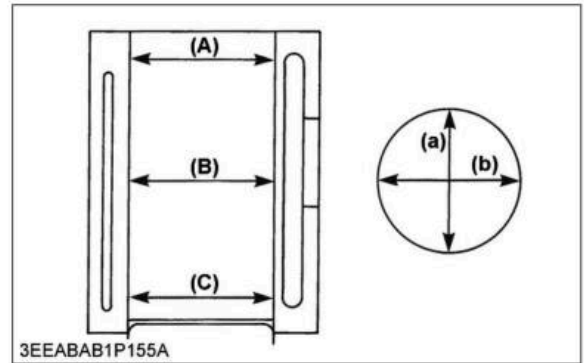
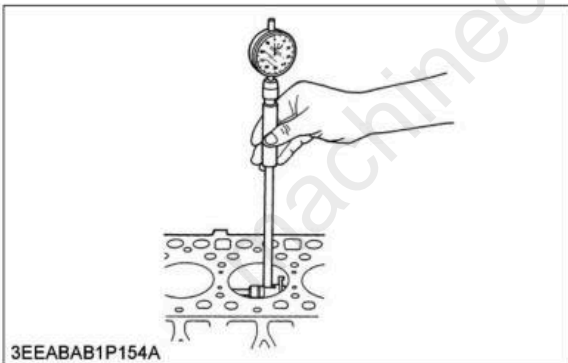
## 6.5 Cylinder

### 6.5.1 Checking cylinder wear

#### Tools required

- Cylinder gauge

1. Measure the I.D. of the cylinder at the six positions (see figure) with a cylinder gauge to find the maximum and minimum I.D.'s.



- (A) Top  
(B) Middle  
(C) Bottom (Skirt)
- (a) Right-angled to piston pin  
(b) Piston pin direction

2. Get the difference (maximum wear) between the maximum and the minimum I.D.'s.
3. If the wear exceeds the service limit, bore and hone to the oversize dimension.

#### BX1880

|                     |                       |   |
|---------------------|-----------------------|---|
| Cylinder liner I.D. | Service specification | 67.000 to 67.019 mm<br>2.6378 to 2.6385 in. |
|                     | Service limit         | 67.150 mm<br>2.6437 in.                     |

#### BX2380

|                     |                       |   |
|---------------------|-----------------------|---|
| Cylinder liner I.D. | Service specification | 72.000 to 72.019 mm<br>2.8347 to 2.8353 in. |
|                     | Service limit         | 72.150 mm<br>2.8406 in.                     |

#### BX2680

|                     |                       |   |
|---------------------|-----------------------|---|
| Cylinder liner I.D. | Service specification | 76.000 to 76.019 mm<br>2.9922 to 2.9928 in. |
|                     | Service limit         | 76.15 mm<br>2.998 in.                       |

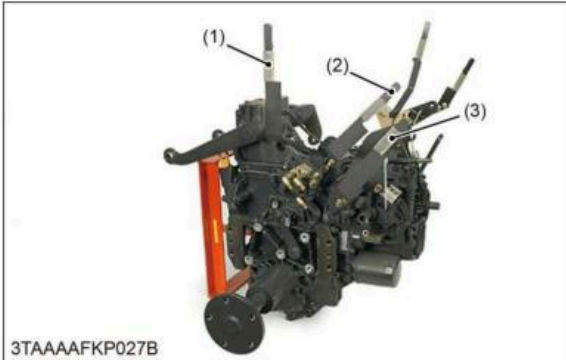
4. Visually check the cylinder wall for scratches. If deep scratches are found, the cylinder should be bored.

— RELATED PAGE —

[6.5.2 Correcting cylinder \(Oversize\) on page 3-78](#)

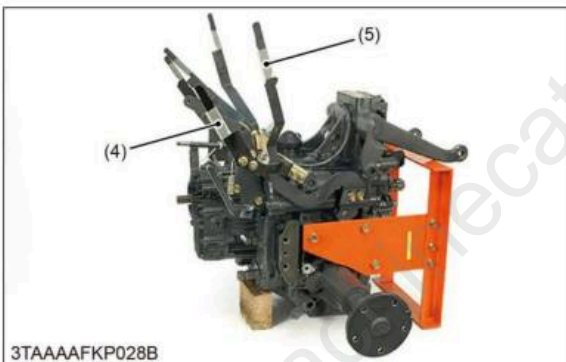
## 5.2 Hydrostatic transmission

### 5.2.1 Removing levers and mower lift arm



- (1) Range gear shift lever      (3) Front wheel drive lever  
 (2) Hydraulic control lever

1. Tap out the spring pin from the range gear shift lever (1) and front wheel drive lever (3), then remove the both levers.
2. Remove the hydraulic control lever (2).
3. Remove the PTO select lever (4) and PTO clutch control lever (5).



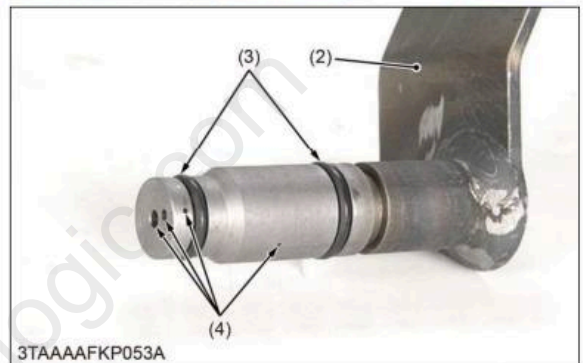
- (4) PTO select lever      (5) PTO clutch control lever

**(When reassembling)**

- Apply grease to inside of the front coupling and rear mounting.

|                   |   |   |
|-------------------|---|---|
| Tightening torque | Hydraulic control lever mounting bolt and nut | 18 to 20 N·m<br>1.8 to 2.1 kgf·m<br>13 to 15 lbf·ft |
|-------------------|---|---|

### 5.2.2 Removing PTO clutch valve



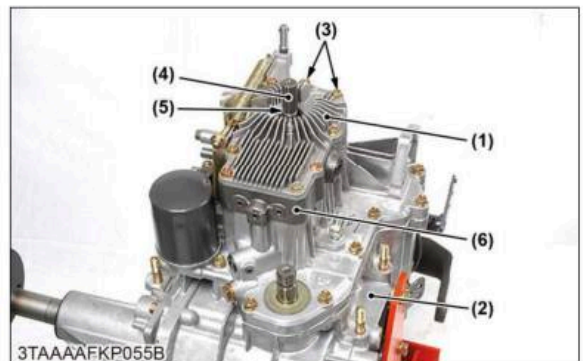
- (1) Stopper      (3) O-ring  
 (2) PTO clutch valve      (4) Oil passage

1. Remove the stopper (1).
2. Draw out the PTO clutch valve (2) from the transaxle assembly.

**(When reassembling)**

1. Clean the oil passages (4).
2. Apply the transmission fluid to the O-rings (3).

### 5.2.3 Removing center section



- (1) Oil cooler cover      (4) Clutch pump shaft  
 (2) Transaxle assembly      (5) Bearing  
 (3) Bolt/Nut      (6) Center section

2. Electrical connector chart

|   |   |  |   |   |
|---|---|--|---|---|
| <p>3RD_FLUC<br/>AMP_EI_11832J<br/>AL_BATTERY(+)<br/>YAZAKI 7166-3105<br/>ALT_B<br/>RING_TERMINAL_LA_M8<br/>SUMITOMO_T5000 6189-0442<br/>ALT_S<br/>BL_STARTER<br/>EARTH_TERMINAL_BA_M8<br/>SWATH(+)<br/>YAZAKI_SUL_7123-115-30<br/>BODYEARTH(FRAME)<br/>RING_TERMINAL_LA_M8<br/>BODYEARTH(STARTER)<br/>RING_TERMINAL_LA_M8<br/>COMBIL_SW<br/>SUMITOMO_M1096 6244-5121<br/>DC_OUTLET<br/>YAZAKI_POSITIVE_LOCK 7123-8222</p> | <p>FLASHER UNIT<br/>SUMITOMO_M1096 6242-5881<br/>FUEL_PUMP<br/>SUMITOMO_250 6070-2481 *1 010 7 011<br/>FUEL_SSR(+)<br/>AMP_POSITIVE_LOCK(MK / ) 154719-1<br/>FUEL_SSR(-)<br/>AMP_POSITIVE_LOCK(MK / ) 154719-0<br/>FUSE_BOX<br/>GLOW_PLUG<br/>PORK_TERMINAL_LE_M4<br/>RING_TERMINAL_LA_M8 *1 053 7 081<br/>ONDA(L)<br/>RING_TERMINAL_LA_M8 *1 053 7 071<br/>HAZARD_LAMP(L-)<br/>BULLET_TERMINAL_RECEPTACLE CB</p> | <p>HAZARD_LAMP(L-)<br/>BULLET_TERMINAL_PLUG CA *1 053 7 056<br/>HAZARD_LAMP(R-)<br/>BULLET_TERMINAL_RECEPTACLE CB<br/>HAZARD_LAMP(R-)<br/>BULLET_TERMINAL_RECEPTACLE CB<br/>HEAD_LIGHT(L)<br/>DELPHI_AMHIP30200 12124819<br/>HEAD_LIGHT(R)<br/>DELPHI_AMHIP30200 12124819<br/>MAIN_SW<br/>SUMITOMO_DL_250 6105-0041<br/>NEUTRAL_SW<br/>MOLEX_MX150 33472-0801<br/>OIL_PRESS_SW<br/>YAZAKI_Z50 7116-2020<br/>RANEL<br/>JAE_MX34 MACHOOBFI<br/>PTO_SW<br/>MOLEX_MX150 33472-0801</p> | <p>REAR_PTO_SW<br/>MOLEX_MX150 33472-0801<br/>FUEL_COOL<br/>BOSCH_3334-485-007<br/>RLV(LAMP)<br/>BOSCH_3334-485-007<br/>RLV(STARTER)<br/>BOSCH_3334-485-007<br/>SAFETY_SW(SEAT)<br/>SUMITOMO_M1096 6187-2111<br/>SAFETY_SW(SEAT_TURN_OVER)<br/>DELTA 9020<br/>SRF<br/>SOLENOID<br/>PKC_E-321<br/>YAZAKI_CNA 7123-2115</p> | <p>STARTER_S<br/>YAZAKI_CNA 7123-2115<br/>TAIL_LIGHT(L-)<br/>BULLET_TERMINAL_RECEPTACLE CB<br/>TAIL_LIGHT(L-)<br/>BULLET_TERMINAL_RECEPTACLE CB<br/>TAIL_LIGHT(R-)<br/>SUMITOMO_M1096 6187-2171<br/>TO_OUTLET_H<br/>SUMITOMO_M1096 6182-2181<br/>TO_MAIN_L(SEAT)<br/>TIMER(OPC)<br/>SUMITOMO_M1096 6182-1182<br/>TIMER(STOP)<br/>SUMITOMO_Z50 6077-4481<br/>TO_MAIN(+)<br/>BULLET_TERMINAL_PLUG CA<br/>TO_WORK_LIGHT(+)<br/>BULLET_TERMINAL_RECEPTACLE CB<br/>TO_MAIN(-COOL)<br/>BULLET_TERMINAL_PLUG CA<br/>TO_WORK_LIGHT(+)<br/>SUMITOMO_Z50 6070-2481<br/>WORK_LIGHT(R)<br/>SUMITOMO_Z50 6070-2481</p> |
|---|---|--|---|---|

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# Full Version Available

Kubota BX2680-AU 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-bx2680-au-tractor-workshop-manual/>