

# WSM

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WORKSHOP MANUAL  
**BACKHOE**

**BH70**

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**Kubota**

### [3] AMERICAN STANDARD SCREWS, BOLTS AND NUTS WITH

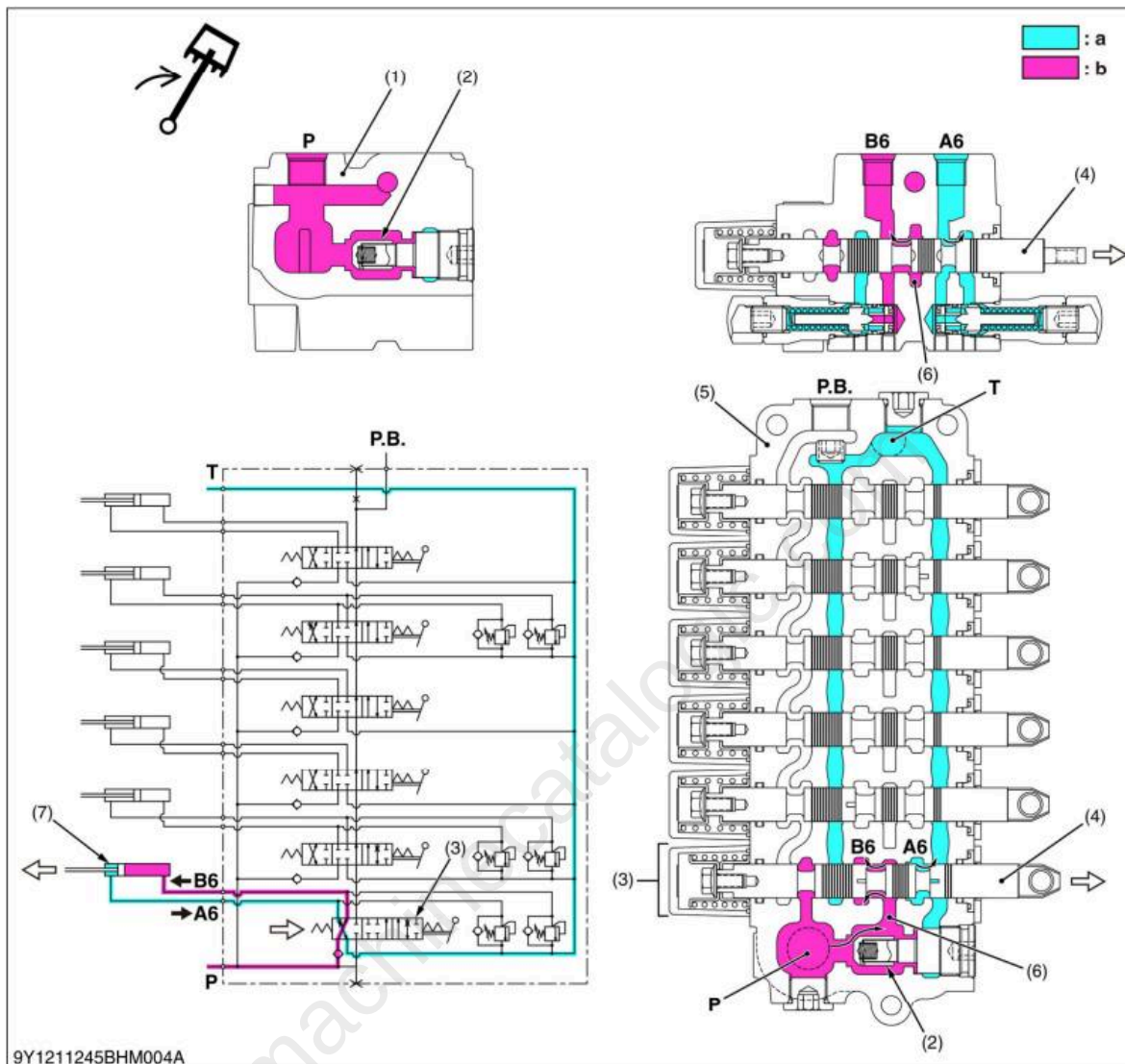
| Grade |  SAE GR.5 |              |              |  SAE GR.8 |              |              |
|-------|--------------------------------------------------------------------------------------------|--------------|--------------|----------------------------------------------------------------------------------------------|--------------|--------------|
| Unit  | N·m                                                                                        | kgf·m        | lbf·ft       | N·m                                                                                          | kgf·m        | lbf·ft       |
| 1/4   | 11.7 to 15.7                                                                               | 1.20 to 1.60 | 8.63 to 11.5 | 16.3 to 19.7                                                                                 | 1.67 to 2.00 | 12.0 to 14.6 |
| 5/16  | 23.1 to 27.7                                                                               | 2.36 to 2.82 | 17.0 to 20.5 | 33 to 39                                                                                     | 3.4 to 3.9   | 25 to 28     |
| 3/8   | 48 to 56                                                                                   | 4.9 to 5.7   | 36 to 41     | 61 to 73                                                                                     | 6.3 to 7.4   | 45 to 53     |
| 1/2   | 110 to 130                                                                                 | 11.3 to 13.2 | 81.2 to 95.8 | 150 to 178                                                                                   | 15.3 to 18.1 | 111 to 131   |
| 9/16  | 150 to 178                                                                                 | 15.3 to 18.1 | 111 to 131   | 217 to 260                                                                                   | 22.2 to 26.5 | 160 to 191   |
| 5/8   | 204 to 244                                                                                 | 20.8 to 24.8 | 151 to 179   | 299 to 357                                                                                   | 30.5 to 36.4 | 221 to 263   |

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### [4] PLUGS

| Shape                                                                                               | Size | Material of opponent part |              |              |          |            |           |
|-----------------------------------------------------------------------------------------------------|------|---------------------------|--------------|--------------|----------|------------|-----------|
|                                                                                                     |      | Ordinariness              |              |              | Aluminum |            |           |
|                                                                                                     |      | N·m                       | kgf·m        | lbf·ft       | N·m      | kgf·m      | lbf·ft    |
| Tapered screw<br>  | R1/8 | 13 to 21                  | 1.3 to 2.2   | 9.4 to 15    | 13 to 19 | 1.3 to 2.0 | 9.4 to 14 |
|                                                                                                     | R1/4 | 25 to 44                  | 2.5 to 4.5   | 18 to 32     | 25 to 34 | 2.5 to 3.5 | 18 to 25  |
|                                                                                                     | R3/8 | 49 to 88                  | 5.0 to 9.0   | 37 to 65     | 49 to 58 | 5.0 to 6.0 | 37 to 43  |
|                                                                                                     | R1/2 | 58.9 to 107               | 6.00 to 11.0 | 43.4 to 79.5 | 59 to 78 | 6.0 to 8.0 | 44 to 57  |
| Straight screw<br> | G1/4 | 25 to 34                  | 2.5 to 3.5   | 18 to 25     | —        | —          | —         |
|                                                                                                     | G3/8 | 62 to 82                  | 6.3 to 8.4   | 46 to 60     | —        | —          | —         |
|                                                                                                     | G1/2 | 49 to 88                  | 5.0 to 9.0   | 37 to 65     | —        | —          | —         |

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**Swing (Right)**

- (1) Inlet Section
- (2) Check Valve
- (3) Swing Section
- (7) Swing Cylinder

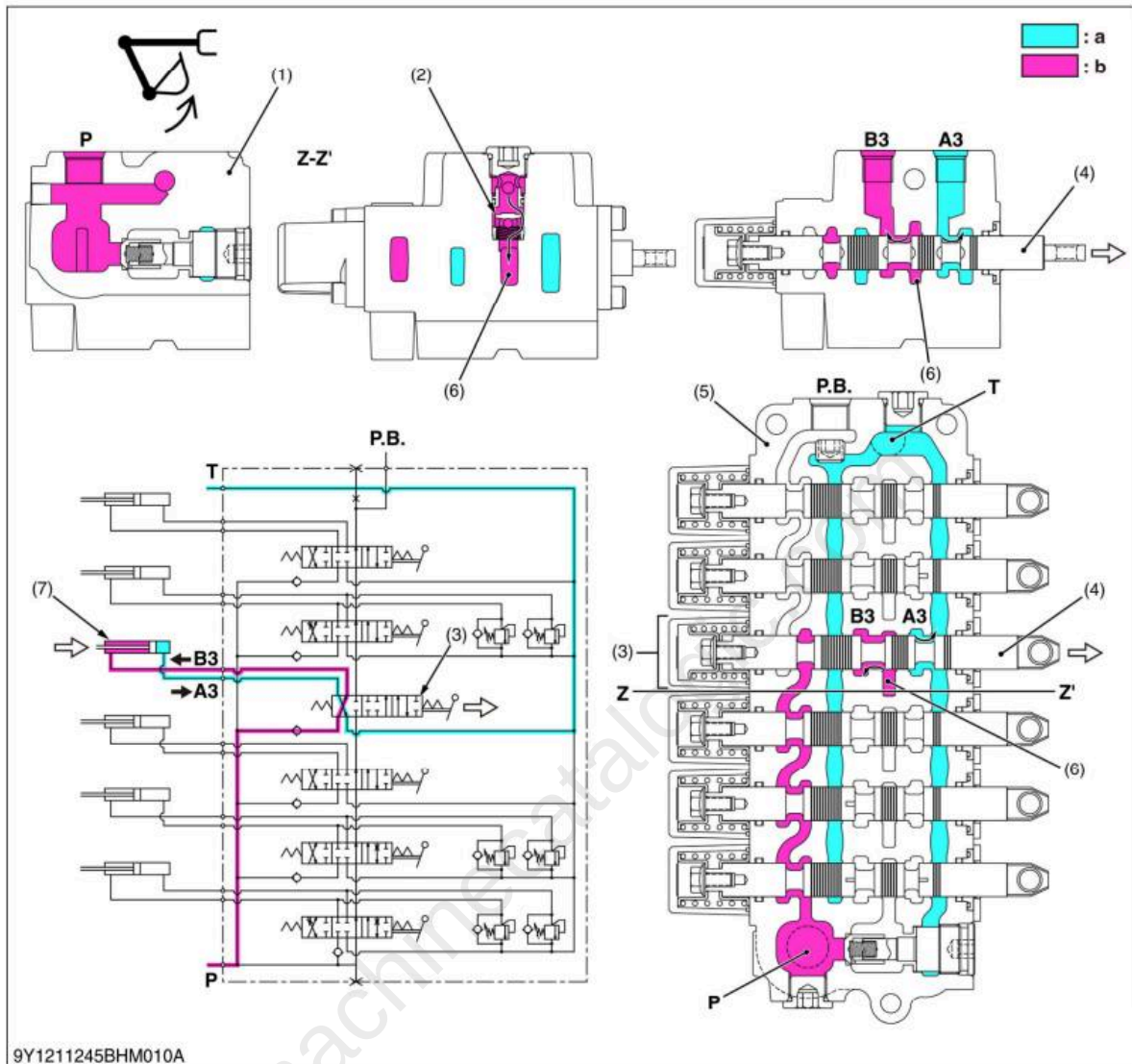
- (5) Outlet Section
- (6) Bridge Passage

- P:** Pump Port
- T:** Tank Port
- P.B.:** Power Beyond Port

- A6:** A6 Port  
(From Swing Cylinder)
- B6:** B6 Port (To Swing Cylinder)
- a:** Low Pressure
- b:** High Pressure

1. When the boom and swing lever is moved to the right to set to the **"RIGHT"** position, the spool (4) of the swing control valve moves to the right, which forms oil passage between bridge passage (6) and **A6** port, and between **B6** port and **T** port.
2. The pressure-fed oil from the **P** port opens the load check valve (2) and flows to **B6** port to extend the swing cylinder.
3. Return oil from the swing cylinders return to the transmission case through the **A6** port, low pressure passage and **T** port.

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**Stabilizer RH (Shrink)**

- (1) Inlet Section
- (2) Check Valve
- (3) Stabilizer RH Section
- (4) Spool

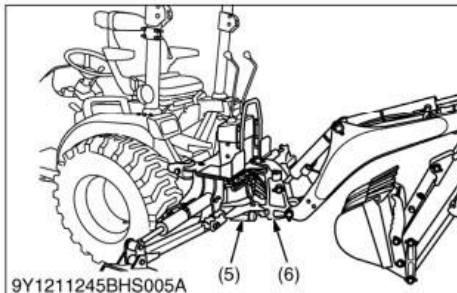
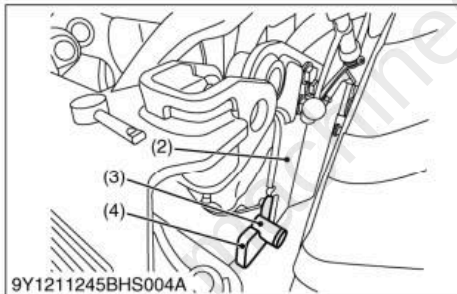
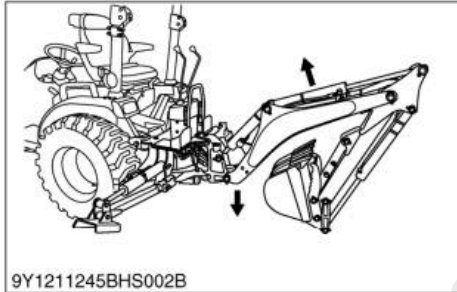
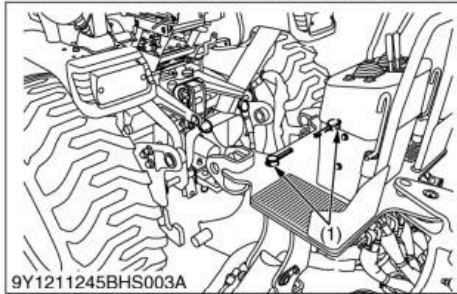
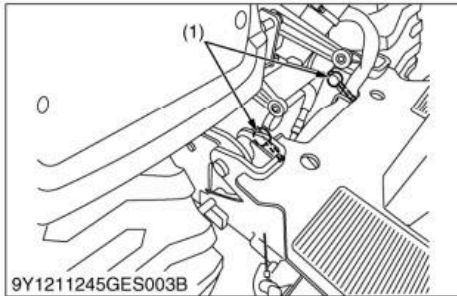
- (5) Outlet Section
- (6) Bridge Passage
- (7) Stabilizer Cylinder

**P:** Pump Port  
**T:** Tank Port  
**P.B.:** Power Beyond Port

**A3:** A3 Port  
 (From Stabilizer Cylinder)  
**B3:** B3 Port  
 (To Stabilizer Cylinder)  
**a:** Low Pressure  
**b:** High Pressure

1. When the right stabilizer control lever is pushed to the forward to set to the **"SHRINK"** position, the spool (4) of the stabilizer RH control valve moves to the left, which forms oil passage between bridge passage (6) and **B3** port, and between **A3** port and **T** port.
2. The pressure-fed oil from the **P** port opens the load check valve (2), and flows to **B3** port to retract the right stabilizer cylinder.
3. Return oil from the right stabilizer cylinder returns to the transmission case through the **A3** port, low pressure passage and **T** port.

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### Mounting Pin

1. Raise the rear wheels slightly with the boom and remove the mounting pins (1).
2. Put the mounting pins (1) in the holes on the step of the backhoe.
3. Slowly raise the boom to disengage the backhoe from the tractor.
4. Raise the backhoe by operating the stabilizers to the lowering direction until the mount bars (3) hit to the guide stopper on the support hooks (4).
5. Move the tractor forward from the backhoe about 203 mm (8.0 in.)

### ■ IMPORTANT

- Be careful not to damage or break the hoses when moving the tractor.
6. Lower the main frame and swing frame onto the ground by operating the boom and stabilizer control levers.
  7. Stop the engine and set the parking brake.

- |                   |                  |
|-------------------|------------------|
| (1) Mounting Pin  | (4) Support Hook |
| (2) Guide Stopper | (5) Main Frame   |
| (3) Mount Bar     | (6) Swing Frame  |

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# Full Version Available

## Kubota BH70 Backhoe 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-bh70-backhoe-workshop-manual/>