

# WSM

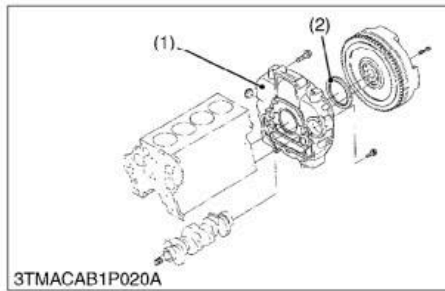
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WORKSHOP MANUAL  
TRACTOR

M96S, M108S

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**Кубота**



### Flywheel Housing

1. Remove the flywheel housing.

#### (When reassembling)

- Apply liquid gasket (Three Bond 1217D or equipment) to flywheel housing.
- Make sure that the liquid gasket coating surface is free of water, dust and oil in order to maintain sealing effect.
- Be careful not to damage the oil seal when installing the flywheel housing to the crankshaft.
- Be careful not to place the oil seal tilted.
- Tighten the flywheel housing mounting screws with even force on the diagonal line.

#### ■ NOTE

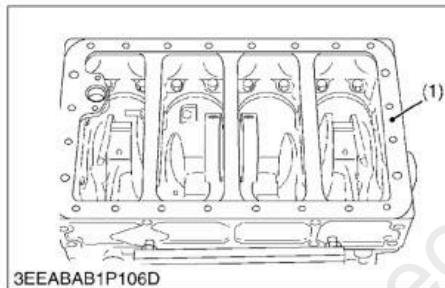
- **When mounting the adhesive-applied parts, be careful to fit them to the mating parts.**
- **Assemble the adhesive-applied parts within 10 minutes.**

Tightening torque	Flywheel housing mounting screw	78 to 90 N·m 7.9 to 9.2 kgf·m 58 to 66 lbf·ft
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(1) Flywheel Housing

(2) Oil Seal

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### Crankcase 2

1. Remove the crankcase 2 (1).

#### (When reassembling)

#### ■ IMPORTANT

- **Make sure the crankcase 1 and 2 are clean.**
- **Apply liquid gasket (Three Bond 1217D) to the crankcase 2 as shown in the figure.**
- **Tighten the crankcase 2 mounting screws with even force on the diagonal line.**
- **Make sure that the liquid gasket coating surface is free of water, dust and oil in order to maintain sealing effect.**
- **Carefully apply the adhesive evenly.**

#### ■ NOTE

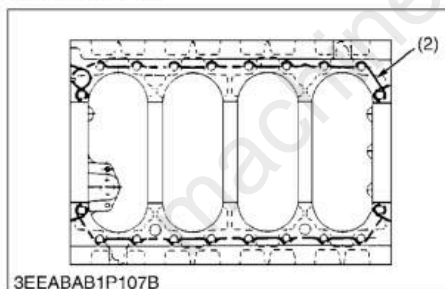
- **When mounting the adhesive-applied parts, be careful to fit them to the mating parts.**
- **Assemble the adhesive-applied parts within 10 minutes.**

Tightening torque	Crankcase 2 mounting screw	49 to 55 N·m 5.0 to 5.7 kgf·m 37 to 41 lbf·ft
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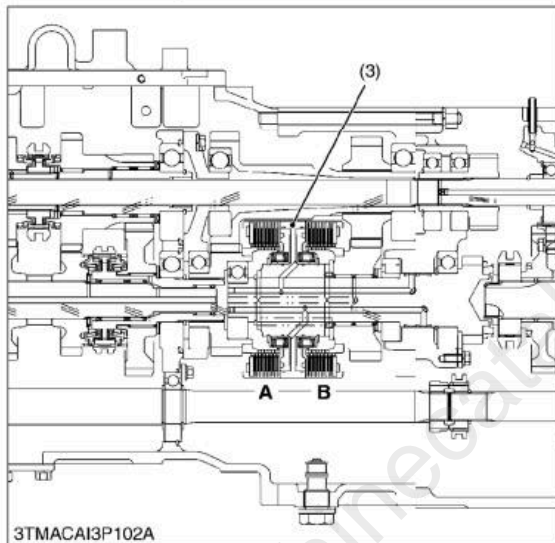
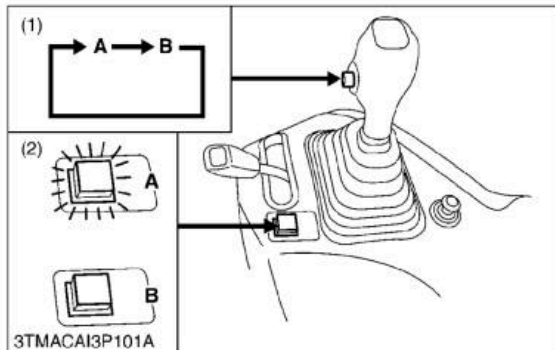
(1) Crankcase 2

(2) Liquid Gasket

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## [4] DUAL SPEED



### ■ Dual Speed

Model M96S-DS and M108S-DS have dual speed device as a standard equipment.

The dual speed device consists of the **HI-LO** clutch, located in the mid case, and the clutch valve that controls the **HI-LO** clutch.

The dual speed shift switch (1) can be operated when the tractor is travelling without using the clutch (Tractor travel speed change by about 17 %). **LO** speed and **HI** speed change at each time by the switch is pushed.

### ■ Dual Speed Indicator

The indicator comes on when the dual speed switch is set to **LO**.

The indicator goes off, when the dual speed switch is set to **HI**.

- |                             |                    |
|-----------------------------|--------------------|
| (1) Dual Speed Shift Switch | <b>A: LO Speed</b> |
| (2) Dual Speed Indicator    | <b>B: HI Speed</b> |
| (3) Dual Speed Clutch       |                    |

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**ROPS Upper Frame**

1. Remove the ROPS upper frame (1).

**(When reassembling)**

- To assemble the ROPS, fix the upper frame with set screw temporarily, then tighten the under frame nuts evenly with specified torque.
- Attach the upper frame with set screws so not to fall down.

Tightening torque	ROPS under frame mounting nut (M16, 9T)	260 to 304 N·m 26.5 to 31.0 kgf·m 192 to 224 lbf·ft
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ROPS upper frame lift up force at center of upper frame	Reference value	246 to 284 N 25.0 to 29.0 kgf 55.2 to 63.9 lbf
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(1) ROPS Upper Frame

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**Rear Wheel and 3-Points Hitch**

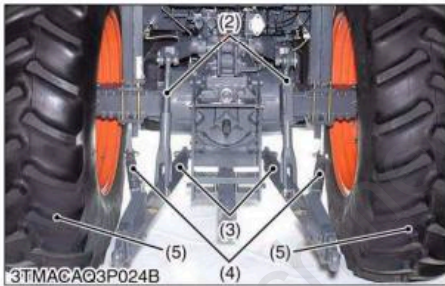
1. Set the front axle rocking restrictor (refer to "8. SPECIAL TOOLS" at "G. GENERAL" section) (1) to the front axle.
2. Place the disassembling stand under the transmission case.
3. Remove the rear wheel (5).
4. Remove the lifting rod (2) and lower link (3) with stabilizer (4).

**(When reassembling)**

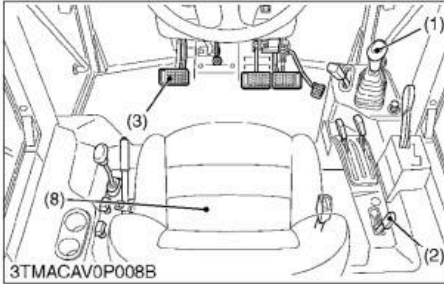
Tightening torque	Rear wheel mounting nut	344 to 402 N·m 35.0 to 41.0 kgf·m 254 to 296 lbf·ft
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- (1) Front Axle Rocking Restrictor
- (2) Lift Rod
- (3) Lower Link
- (4) Stabilizer
- (5) Rear Wheel

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### (3) OPC (Operator Presence Control) System



#### Preparation

1. Place all control levers to the "NEUTRAL" position.
2. Set the parking brake and stop the engine.

#### ■ Test 1: Switch for the Main Gear Shift Lever

1. Sit on operator's seat.
2. Shift the main gear shift lever (1) to the desire position.
3. Depress the clutch pedal fully.
4. Disengage the PTO clutch control lever (2).
5. Turn the key to "START" position.
6. The engine must not crank.
7. If it cranks, check the safety switches (4), (5).

#### ■ Test 2: Switch for the PTO Clutch Control Lever

1. Sit on operator's seat.
2. Engage the PTO clutch control lever (2).
3. Depress the clutch pedal (3) fully.
4. Turn the key to "START" position.
5. The engine must not crank.
6. If it cranks, check the PTO switch (6).

#### ■ Test 3: Checking Operator's Presence Control (OPC) System

1. Sit on the seat.
2. Turn the key to "ON" position.
3. Shift the PTO lever to "ON".

Make sure the warning buzzer does not whistle.

If the buzzer whistles while sitting on the seat, check the parts which compose the PTO safety switch.

4. Stand up from the seat.
5. The warning buzzer whistles about one second after standing up. It whistles for 10 seconds.

If the buzzer does not whistle, check the corresponding parts.

- |   |   |
|---|---|
| (1) Main Gear Shift Lever                   | (5) Safety Switch (3-4 Speed Range Monitor) |
| (2) PTO Clutch Control Lever                | (6) PTO Safety Switch                       |
| (3) Clutch Pedal                            | (7) Buzzer                                  |
| (4) Safety Switch (1-2 Speed Range Monitor) | (8) Seat                                    |

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# Full Version Available

Kubota M96S 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-m96s-tractor-workshop-manual/>