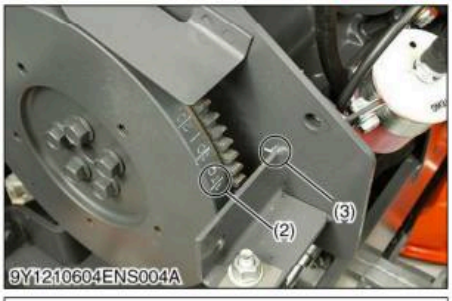
WSM

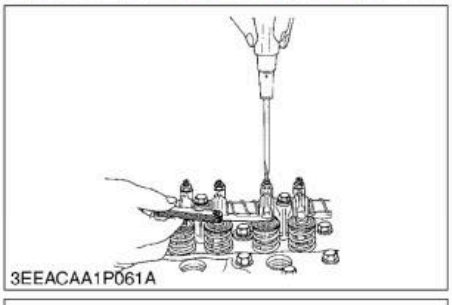
WORKSHOP MANUAL

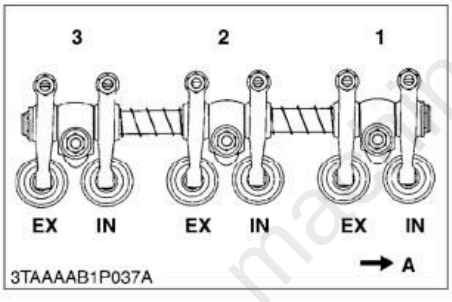
GR2120,GR2120-AU

Kubota

KiSC issued 03, 2022 A







Checking Valve Clearance

■ **IMPORTANT**

- **The valve clearance must be checked and adjusted when engine is cold.**

1. Remove the cylinder head cover (1) and the glow plugs.
2. Align the **"1TC"** mark (2) on the flywheel and alignment mark (3) on the rear end plate so that the No. 1 piston comes to the compression top dead center.
3. Check the following valve clearance marked with "★" using a thickness gauge.
4. If the clearance is not within the factory specifications, adjust with the adjusting screw.
5. Then turn the flywheel 6.28 rad (360°), and align the **"1TC"** mark (2) on the flywheel and alignment mark (3) on the rear end plate so that the No.1 piston comes to the overlap position.
6. Check the following valve clearance marked with "☆" using a thickness gauge.

Cylinder No.	No.1	No.2	No.3
Intake valve	★	☆	★
Exhaust valve	★	★	☆

★: When No.1 piston is at the compression top dead center position.

☆: When No.1 piston is at the overlap position.

7. If the clearance is not within the factory specifications, adjust with the adjusting screw.

Intake and exhaust valve clearance (Cold)	Factory specification	0.145 to 0.185 mm 0.00571 to 0.00728 in.

■ **NOTE**

- **The sequence of cylinder numbers is given as No.1, No.2 and No.3 starting from the gear case side.**
- **After adjusting the valve clearance, secure the adjusting screw with the lock nut.**

(1) Cylinder Head Cover
(2) **"1TC"** Mark
(3) Alignment Mark

A: Gear Case Side

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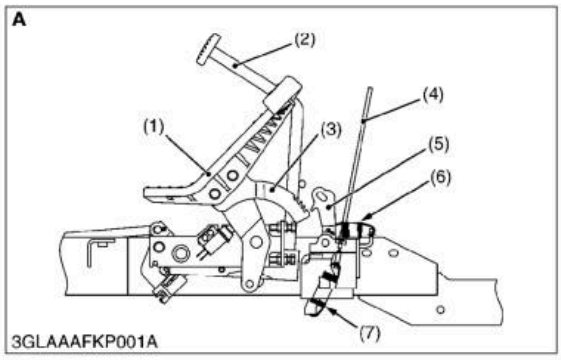
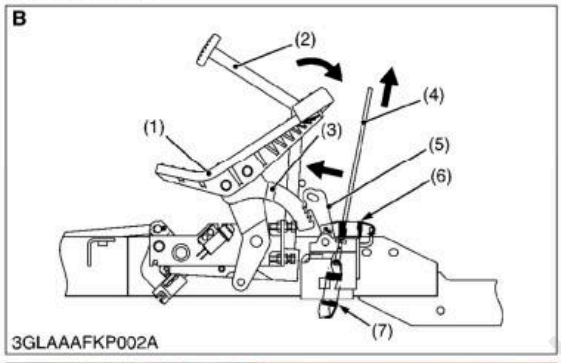
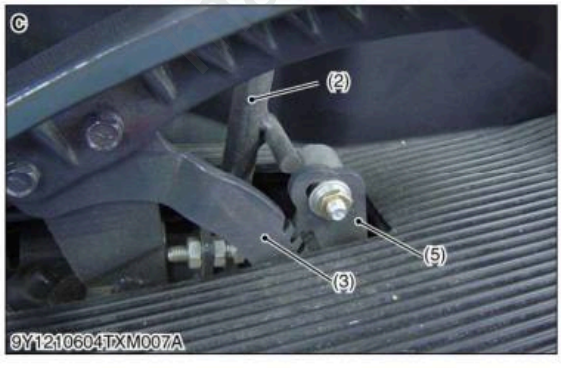
(6) Cruise Control







This machine is equipped with the cruise control.

The cruise control provides a constant forward operating speed by mechanically holding the speed change pedal (1) at a selected position.

To accelerate to the desired speed, presss the speed change pedal (1) and pull the cruise control knob (8). The cruise lock 2 (5) is activated by the cruise spring 2 (7) and cruise wire (4) connected with the cruise control knob (8).

The cruise lock 2 (5) engages with the cruise lock 1 (3) set in the speed change pedal (1). When the speed change pedal (1) and cruise control knob (8) are released, the speed change pedal (1) is set at the depressed position.

To release the cruise control, depress the brake pedal (2). It comes in contact with the cruise lock 2 (5). The cruise lock 2 (5) disengages with the cruise lock 1 (3).

Or, when the speed change pedal is depressed to the forward, the cruise control is released.

(1) Speed Change Pedal
(2) Brake Pedal
(3) Cruise Lock 1
(4) Cruise Wire
(5) Cruise Lock 2
(6) Cruise Spring 1
(7) Cruise Spring 2
(8) Cruise Control Knob

A: Cruise Control "Disengaged"
B: Cruise Control "Engaged"
C: When Depressing Brake Pedal or When Depressing Speed Change Pedal for "Forward"

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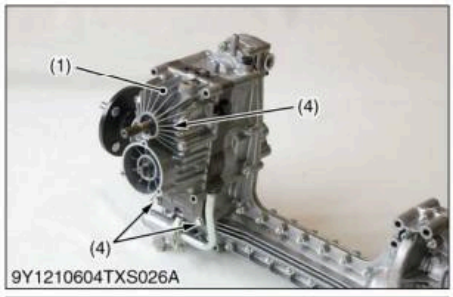

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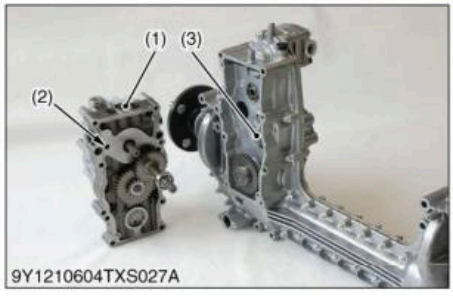

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Hydrostatic Transmission Assembly

1. Remove the hydrostatic transmission assembly (1).

(When reassembling)

- Apply the liquid gasket (Three Bond 1206D or equivalent) to joint face of the hydrostatic transmission assembly (1).
- Cover the splines of front drive shaft with thin tape to protect the sealing lip of the oil seal.

■ **NOTE**

- **When reassembling the hydrostatic transmission assembly, insert the drain pipe (3) in the hole (2) surely so as not to drop out it.**

Tightening torque	Hydrostatic transmission mounting screw	24 to 27 N·m 2.4 to 2.8 kgf·m 18 to 20 lbf·ft
	Hydrostatic transmission mounting screw 2	18 to 20 N·m 1.8 to 2.1 kgf·m 13 to 15 lbf·ft

(1) Hydrostatic Transmission Assembly
(2) Hole
(3) Drain Pipe
(4) Hydrostatic Transmission Mounting Screw 2

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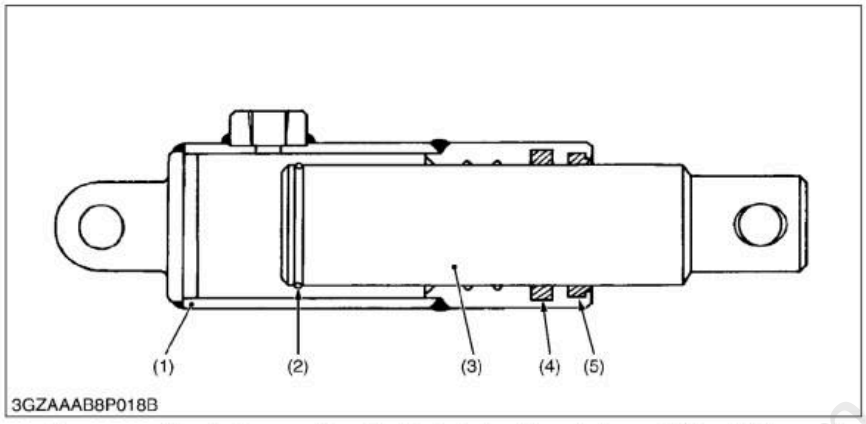
4. MOWER LIFT CYLINDER



(1) Cylinder Tube
(2) Snap Ring
(3) Cylinder Rod
(4) Packing
(5) Scraper

The mower lift cylinder consists of cylinder tube (1), cylinder rod (3) and other parts as shown in the figure above. This cylinder is a single acting type.

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