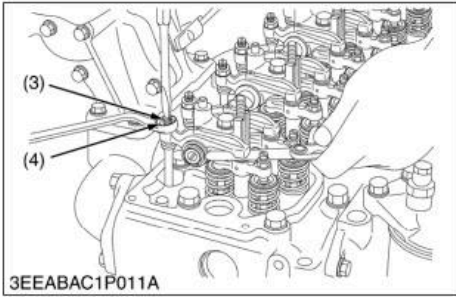
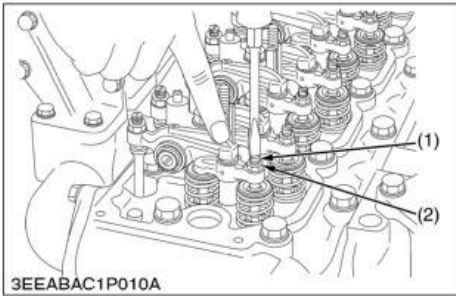
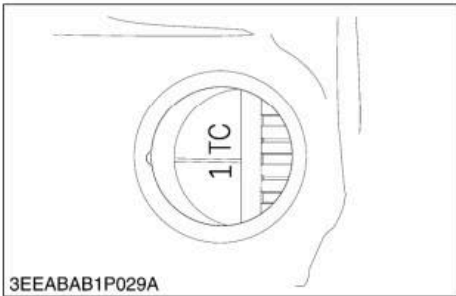


WSM

WORKSHOP MANUAL
TRACTOR

M108S Low Profile

Kubota



Checking Valve Clearance

■ **IMPORTANT**

- Valve clearance must be checked and adjusted when engine is cold.

1. Remove the high pressure pipes and the head cover.
2. Align the 1TC mark of flywheel and the convex of flywheel housing timing windows so that the first piston (gear case side) comes to the compression top dead center.
3. Before adjusting the valve clearance, adjust the bridge evenly to the valves stem.
4. Loosen the lock nut (2) and adjust with screw (1).
5. Slightly push the rocker arm by your fingers and screw in the adjusting screw slowly until you feel the screw touch the top of valve stem, then tighten the lock nut.
6. Loosen the lock nut (4) of adjusting screw (3) (push rod side) and insert the thickness gauge between the rocker arm and the bridge head. Set the adjusting screw to the specified value, then tighten the lock nut.

Valve clearance	Factory specification	0.23 to 0.27 mm 0.0091 to 0.010 in.
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■ **NOTE**

- After adjusting, tighten the lock nut (4) securely.

Adjustment cylinder location of piston	Valve arrangement	
	IN.	EX.
When No.1 piston is compression top dead center	1st	☆
	2nd	☆
	3rd	☆
	4th	
When No.1 piston is overlap position	1st	
	2nd	☆
	3rd	☆
	4th	☆

Tightening torque	Injector clamp nut	24 to 27 N·m 2.4 to 2.8 kgf·m 18 to 20 lbf·ft
	Overflow pipe joint screw (M6 × 1.0)	9.81 to 11.2 N·m 1.00 to 1.15 kgf·m 7.24 to 8.31 lbf·ft
	Cylinder head cover 1 screw	6.87 to 11.2 N·m 0.700 to 1.15 kgf·m 5.07 to 8.31 lbf·ft
	Cylinder head cover 2 screw	9.81 to 11.2 N·m 1.00 to 1.15 kgf·m 7.24 to 8.31 lbf·ft
	Injection pipe retaining nut	23 to 36 N·m 2.3 to 3.7 kgf·m 17 to 26 lbf·ft

- (1) Adjusting Screw
- (2) Lock Nut

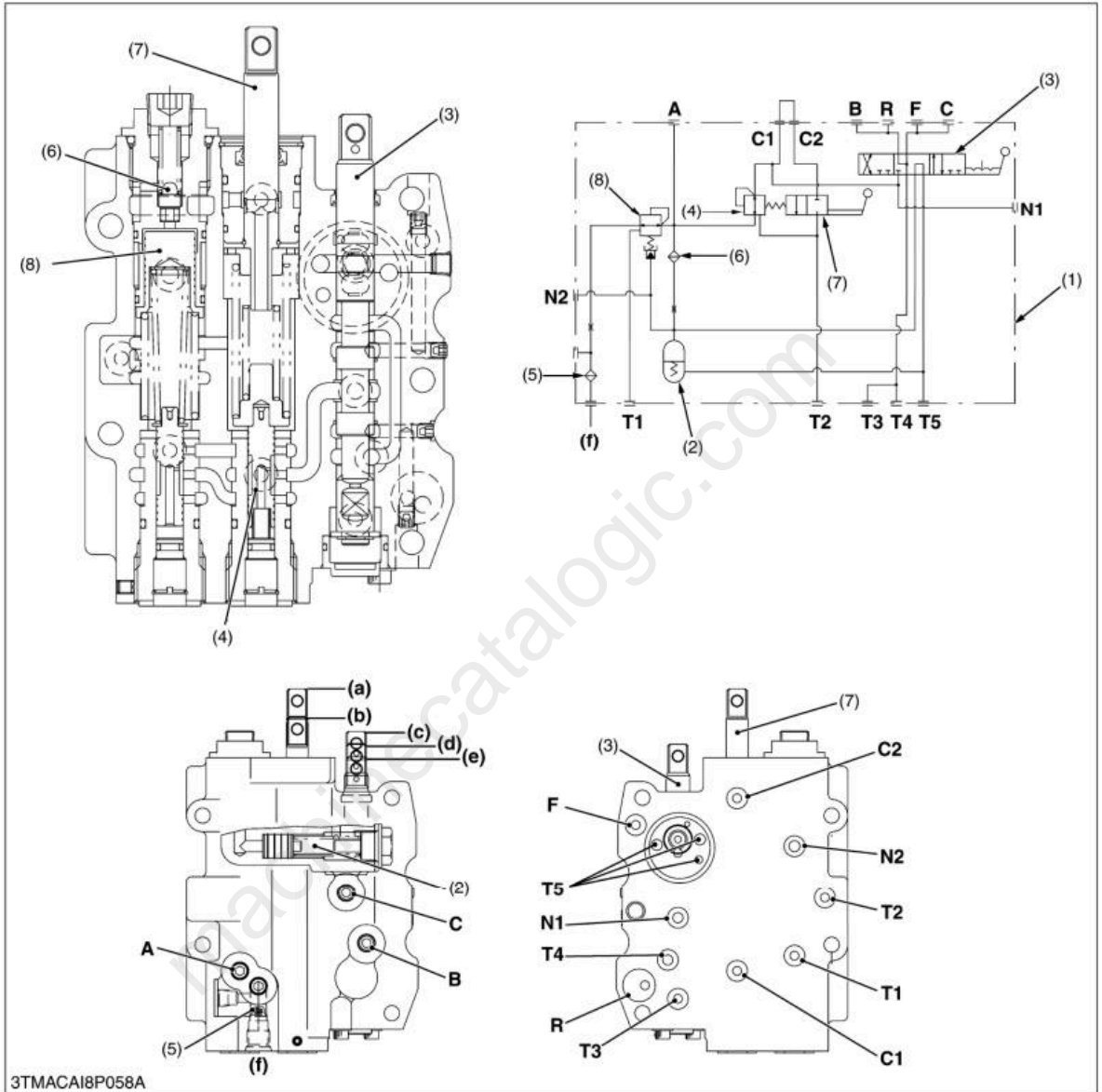
- (3) Adjusting Screw
- (4) Lock Nut

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[3] HYDRAULIC SHUTTLE VALVE

(1) Structure

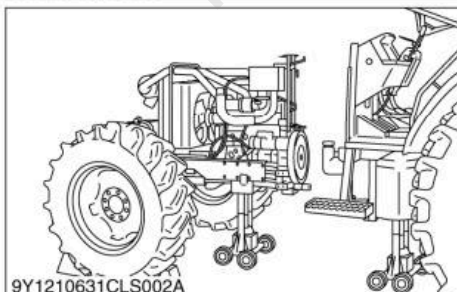
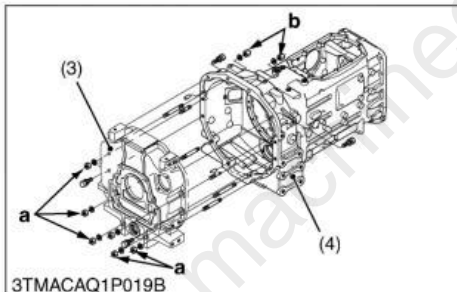
Old valve



3TMACAI8P058A

- | | | | |
|--|-------------------------------------|-------------------------------------|---------------------|
| (1) Shuttle Valve | (a) Clutch Pedal Released Position | A: Pressure Check Port (Modulation) | C1: Connection port |
| (2) Accumulator | (b) Clutch Pedal Depressed Position | B: Pressure Check Port (Reverse) | C2: Connection port |
| (3) Shuttle Shift Spool (Forward, Reverse) | (c) Shuttle Forward Position | C: Pressure Check Port (Forward) | N1: Port N1 |
| (4) Proportionally Reducing Valve | (d) Shuttle Neutral Position | F: To Clutch Body (Forward) | N2: Port N2 |
| (5) Line Filter | (e) Shuttle Reverse Position | R: To Clutch Body (Reverse) | T1: Tank Port |
| (6) Filter | (f) Oil from Regulator Valve | | T2: Tank Port |
| (7) Inching Valve Spool | | | T3: Tank Port |
| (8) Modulating Valve | | | T4: Tank Port |
| | | | T5: Tank Port |

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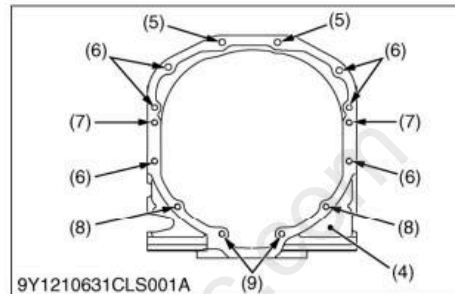


Separating Engine from Clutch Housing

1. Check the engine and clutch housing case are securely mounted on the disassembling stands.
2. Install the front axle rocking restrictor (1) (see page G-65) to the front axle bracket.
3. Remove the floor mat (2) and inspection plate.
4. Remove the engine mounting screws and nuts, and separate the engine from the clutch housing.

(When reassembling)

- Apply molybdenum disulphide (Three Bond 1901 or equivalent) to the splines of damper disc boss.
- Apply liquid gasket (Three Bond 1141, 1211 or equivalent) to joint face of the engine and clutch housing.



Tightening torque	Engine and clutch housing mounting screw, nut (standard type)	124 to 147 N·m 12.6 to 15.0 kgf·m 91.2 to 108 lbf·ft
	Engine and clutch housing mounting nut (wide type)	167 to 196 N·m 17.0 to 20.0 kgf·m 123 to 144 lbf·ft
	Engine and clutch housing mounting stud bolt	39 to 45 N·m 3.9 to 4.6 kgf·m 29 to 33 lbf·ft

- (1) Front Axle Rocking Restrictor **a: Standard Type Nut (7T)**
 (2) Floor Mat **b: Wide Type Nut (9T)**
 (3) Flywheel Cover
 (4) Clutch Housing Case
 (5) Hole for Stud Bolt with Wide Type Nut (9T)
 (6) Screw (M14, 7T, 45 mm)
 (7) Screw (M14, 7T, 40 mm)
 (8) Screw (M14, 7T, 70 mm)
 (9) Screw (M14, 7T, 110 mm)

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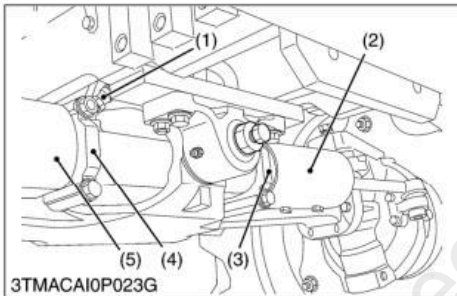
(2) Removing Steering Cylinder



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3TMABAB6P017A



3TMACAI0P023G

Tie-rod

1. Pull out the cotter pin and remove the tie-rod end slotted nuts.
2. Remove the tie-rod with a tie-rod end lifter (Code No. 07909-39051).

(When reassembling)

- Replace cotter pin with a new one.
- Bend the cotter pin as shown in figure.

Tightening torque	Tie-rod end slotted nut	157 to 176 N·m 16.0 to 18.0 kgf·m 116 to 130 lbf·ft
	Tie-rod joint lock nut	167 to 196 N·m 17.0 to 20.0 kgf·m 123 to 144 lbf·ft

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Power Steering Hoses and Cylinder

1. Remove the cylinder cover (2), (5).
2. Disconnect the turning delivery hose LH and RH.
3. Remove the cylinder bracket (3), (4).
4. Remove the cylinder.

(When reassembling)

Tightening torque	Turning delivery hose retaining nut	22 to 27 N·m 2.2 to 2.8 kgf·m 16 to 20 lbf·ft
	Cylinder cover mounting screw	48 to 55 N·m 4.9 to 5.7 kgf·m 36 to 41 lbf·ft
	Cylinder bracket mounting screw	124 to 147 N·m 12.6 to 15.0 kgf·m 91.2 to 108 lbf·ft

- (1) Turning Delivery Hose RH
- (2) Cylinder Cover LH
- (3) Cylinder Bracket LH

- (4) Cylinder Bracket RH
- (5) Cylinder Cover

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Full Version Available

Kubota M108S Tractor Workshop Manual

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

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