WSM

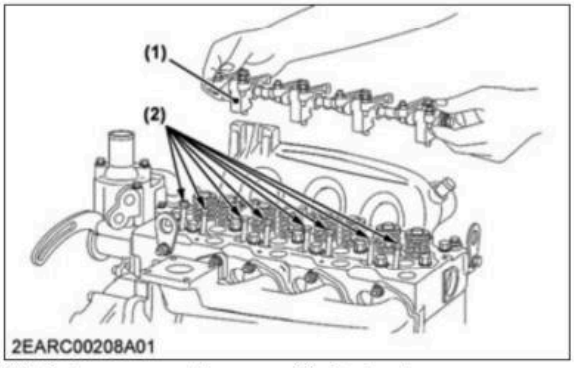
WORKSHOP MANUAL
TRACTOR

MX5200

Kubota

KiSC issued 12, 2018 A

3. Remove the push rods (2).

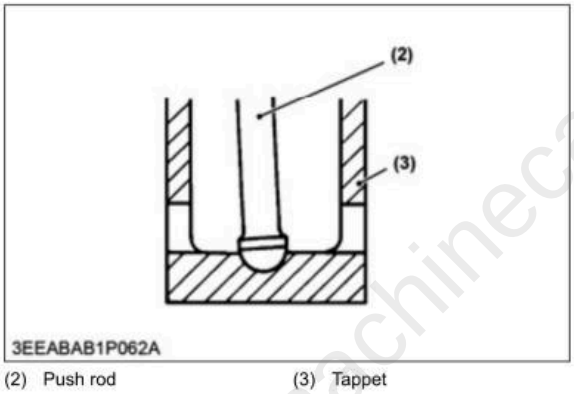


(1) Rocker arm assembly (2) Push rod

(When reassembling)

■ IMPORTANT

- **After installing the rocker arm, be sure to adjust the valve clearance.**
- When putting the push rods (2) onto the tappets (3), check to see if their ends are properly engaged with the grooves.



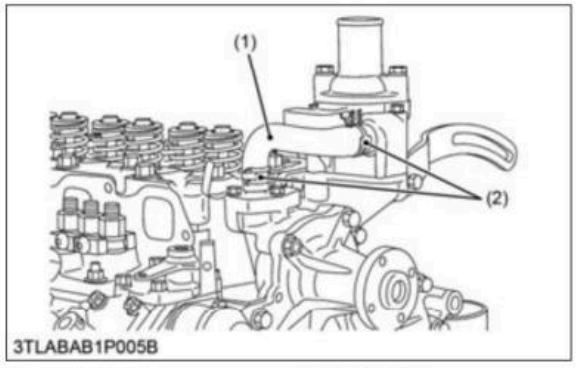
(2) Push rod (3) Tappet

- Tighten to the specified tightening torque.

Tightening torque	Rocker arm bracket screw	24 to 27 N·m 2.5 to 2.7 kgf·m 18 to 19 lbf·ft

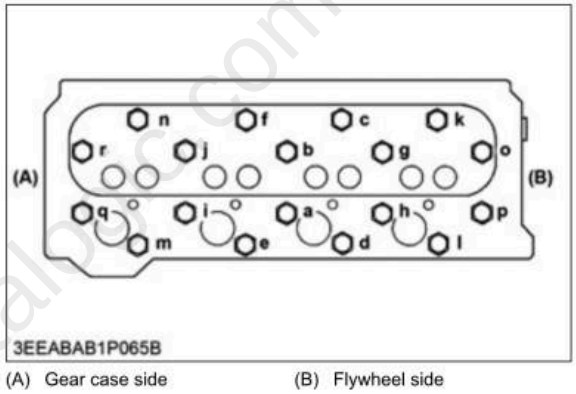
5.3.6 Removing cylinder head

1. Loosen the pipe clamp (2) and remove the water return pipe (1).



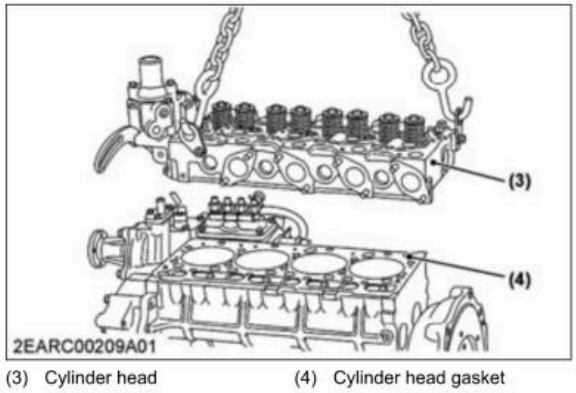
(1) Return pipe (2) Pipe clamp

2. Remove the cylinder head bolt in the order of (r) to (a).



(A) Gear case side (B) Flywheel side

3. Lift up the cylinder head (3) to remove.
4. Remove the cylinder head gasket (4).



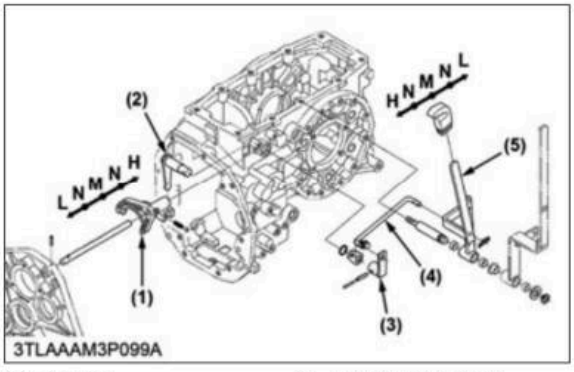
(3) Cylinder head (4) Cylinder head gasket

(When reassembling)

- Replace the cylinder head gasket (4) with a new one.
- Tighten the cylinder head bolt after applying sufficient oil.
- Tighten the cylinder head bolt in diagonal sequence starting from the center in the order of (a) to (r).

2.2.9 Shift linkage mechanism

2.2.9.1 Shift linkage of range gear shift lever

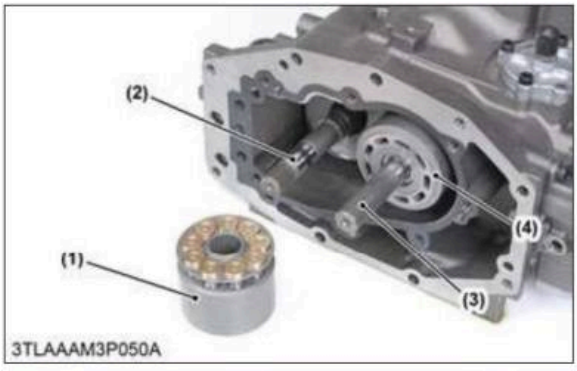


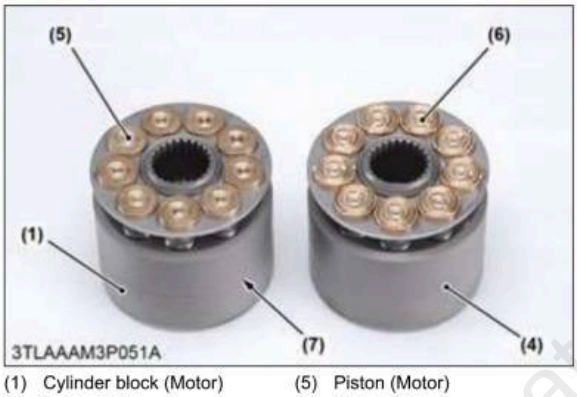
(1) Shift fork
(2) Shift arm
(3) Sub-arm
(4) Rod
(5) Range gear shift lever

H: High Speed Position
M: Middle Speed Position
L: Low Speed position
N: Neutral Position

The links are connected from the shift lever (5) to the shift fork (1) as shown in figure.

1. Remove the cylinder block assemblies (1), (4) with pistons (5), (6).





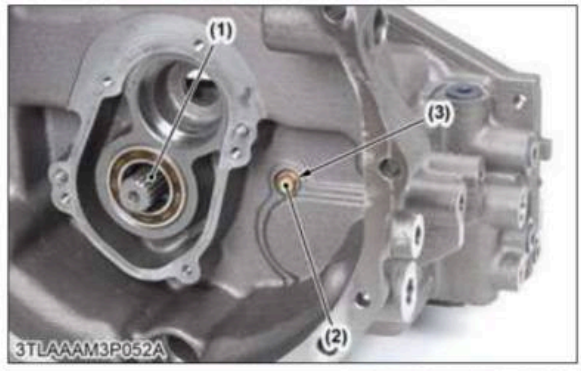
(1) Cylinder block (Motor)
(2) Motor shaft
(3) Pump shaft
(4) Cylinder block (Pump)
(5) Piston (Motor)
(6) Piston (Pump)
(7) Identification groove (Motor)

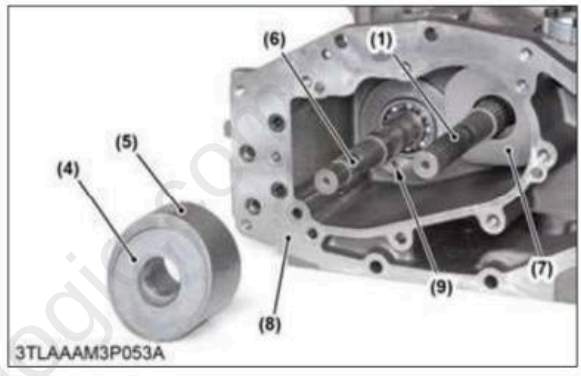
(When reassembling)

- Apply clean transmission oil to cylinder blocks.

5.3.2.4.8 Removing motor shaft

1. Remove the motor swash plate setting bolt (2).
2. Remove the motor swash plate from the motor shaft (6).
3. Remove the motor shaft (6) with the ball bearing from the clutch housing (8).





(1) Pump shaft
(2) Bolt
(3) Seal washer
(4) Thrust plate
(5) Swash plate (Motor)
(6) Motor shaft
(7) Swash plate (Pump)
(8) Clutch housing
(9) Hole (for straight pin)

(When reassembling)

- Install the thrust plate to the swash plate.
- When installing the swash plate to the clutch housing, align the straight pin of the swash plate and the hole of the clutch housing.
- Do not damage the seal washer.

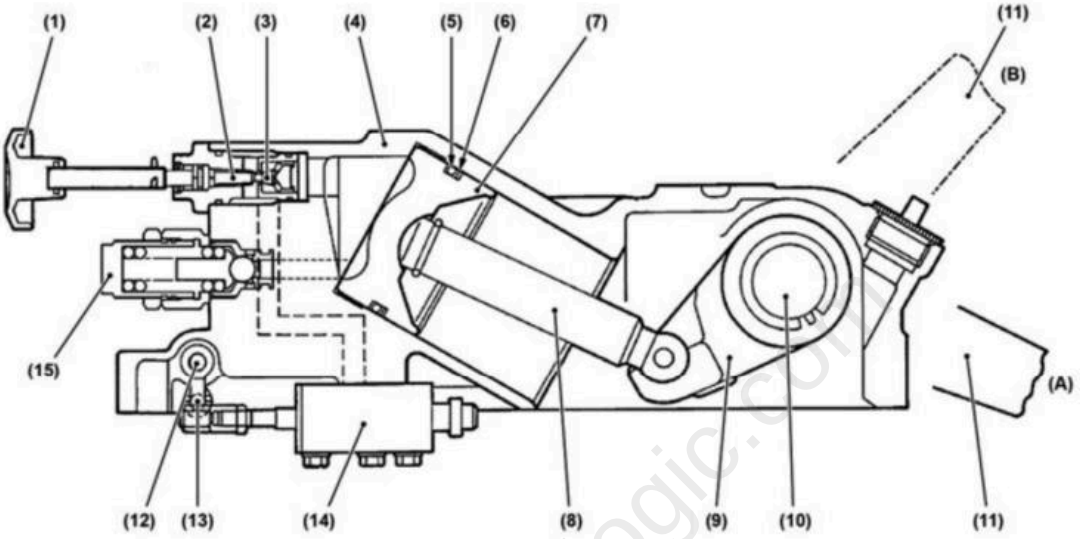
Tightening torque	Swash plate setting bolt	24 to 27 N·m 2.5 to 2.7 kgf·m 18 to 19 lbf·ft

5.3.2.4.9 Removing swash plate and pump shaft

1. Remove the swash plate (3) from the pump shaft (2).
2. Remove the cradle bearing bracket mounting hex. head bolts (6).

4. Hydraulic cylinder

4.1 Structure of hydraulic cylinder



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(1) Lowering speed adjusting knob
(2) Lowering speed adjusting shaft
(3) Lowering speed adjusting valve
(4) Hydraulic cylinder
(5) O-ring
(6) Back-up ring
(7) Hydraulic piston
(8) Hydraulic rod
(9) Hydraulic arm
(10) Hydraulic arm shaft
(11) Lift arm
(12) Position control arm
(13) Spool drive lever
(14) Position control valve
(15) Cylinder safety valve
(A) Lift arm down position
(B) Lift arm up position

The main components of the hydraulic cylinder are shown in the figure above.
While the lift arm (11) is rising, oil from the hydraulic pump flows into the hydraulic cylinder through the position control valve (14). Then the oil pushes out the piston (7).
While the lift arm (11) is lowering, oil in the hydraulic cylinder is discharged to the transmission case through the position control valve (14) by the weight of the implement.
At this time, the lowering speed of the implement can be controlled by the lowering speed adjusting knob (1) attached to the hydraulic cylinder (4).
Turning the lowering speed adjusting knob (1) clockwise decreases the lowering speed, and counterclockwise increases lowering speed.
When the lowering speed adjusting valve (3) is completely closed, the lift arm (11) is held at its position since the oil in the hydraulic cylinder is sealed between the piston (7) and the lowering speed adjusting valve (3).

Full Version Available

Kubota MX5200 Tractor Workshop Manual

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