

# WSM

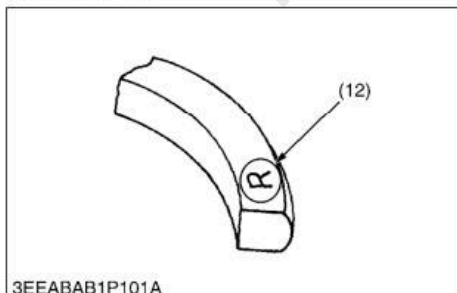
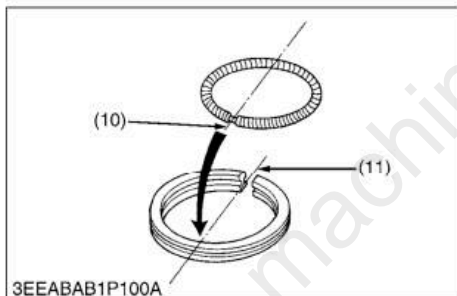
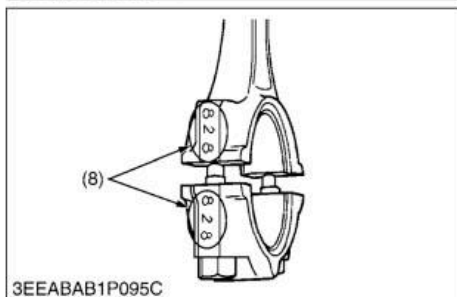
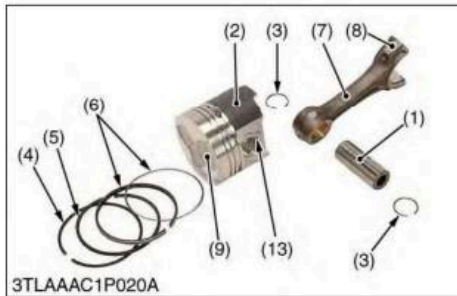
---

WORKSHOP MANUAL  
TRACTOR

L4600

---

**Kubota**



### Piston Ring and Connecting Rod

1. Remove the piston rings (4), (5), (6) using a piston ring tool (Code No. 07909-32121).
2. Place the tip of a small straight edge screwdriver at the piston hollow (13), compress the piston pin snap ring (3) in the radial direction and then remove the piston snap ring.
3. Remove the piston pin (1), and separate the connecting rod (7) from the piston (2).

### (When reassembling)

- When installing the rings, assemble the rings so that the manufacturer's mark (12) near the gap faces the top of the piston (2).
- When installing the oil ring (6) onto the piston (2), place the expander joint (10) on the opposite side of the oil ring gap (11).
- Apply engine oil to the piston pin.
- When installing the piston pin (1), immerse the piston (2) in 80 °C (176 °F) oil for 10 to 15 minutes and insert the piston pin (1) to the piston (2).
- When installing the connecting rod (7) to the piston (2), align the mark (8) on the connecting rod (7) to the fan-shaped concave (9).

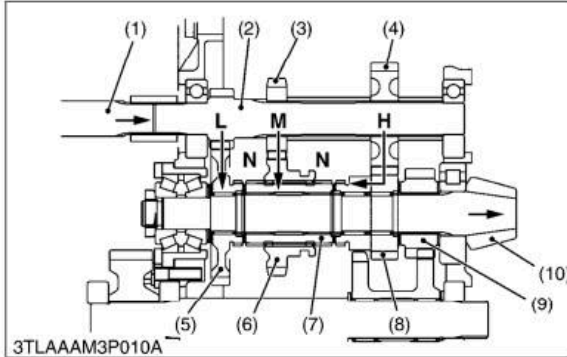
### ■ NOTE

- **Mark the same number on the connecting rod (7) and the piston (2) so as not to change the combination.**

- |                          |                          |
|--------------------------|--------------------------|
| (1) Piston Pin           | (8) Mark                 |
| (2) Piston               | (9) Fan-Shaped Concave   |
| (3) Piston Pin Snap Ring | (10) Expander Joint      |
| (4) Top Ring             | (11) Oil Ring Gap        |
| (5) Second Ring          | (12) Manufacturer's Mark |
| (6) Oil Ring             | (13) Piston Hollow       |
| (7) Connecting Rod       |                          |

(To be continued)

**(2) Hi-Mid-Lo Range Gear Shift Section**



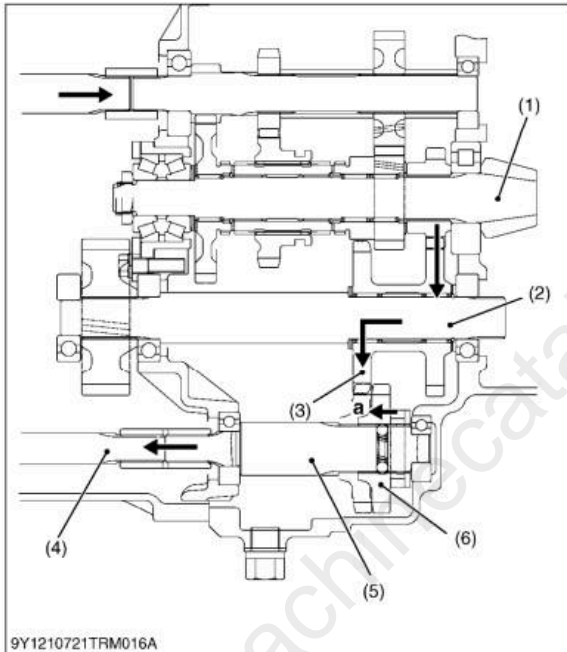
The Hi-Mid-Lo range gear shift section is located in the differential gear case.

It changes the speed to five positions (**L, N, M, N** and **H**) by shifting of shifter gear (6) in the straight line on 6T spiral bevel pinion shaft (10).

- |   |                                   |
|---|-----------------------------------|
| (1) 18T Gear Shaft                        | (8) 22T Gear (High Speed)         |
| (2) 11T Sub Shaft                         | (9) 18T Gear (DT)                 |
| (3) 19T Sub Gear                          | (10) 6T Spiral Bevel Pinion Shaft |
| (4) 28T Sub Gear                          |                                   |
| (5) 37T Gear (Low Speed)                  | <b>L: Low Speed Position</b>      |
| (6) 31T Gear (Middle Speed, Shifter Gear) | <b>N: Neutral Position</b>        |
| (7) Spline Boss                           | <b>M: Middle Speed Position</b>   |
|   | <b>H: High Speed Position</b>     |

9Y1210761TRM0017US0

**(3) Front Wheel Drive Shift Section**



Front wheel drive section is located in the differential gear case.

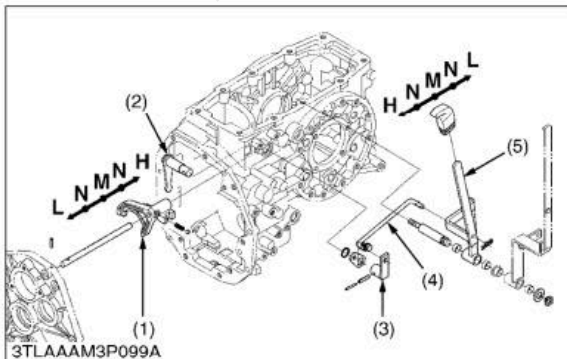
2 wheel drive or 4 wheel drive is selected by operating the front wheel drive lever to shift the DT shift gear (6).

- |                                  |                                       |
|----------------------------------|---------------------------------------|
| (1) 6T Spiral Bevel Pinion Shaft | (5) DT Shaft                          |
| (2) PTO Drive Shaft              | (6) DT Shaft Gear                     |
| (3) 29T-31T DT Gear              |                                       |
| (4) Propeller Shaft              | <b>a: 4 Wheel Drive (DT) Position</b> |

9Y1210761TRM0018US0

**(4) Shift Linkage Mechanism**

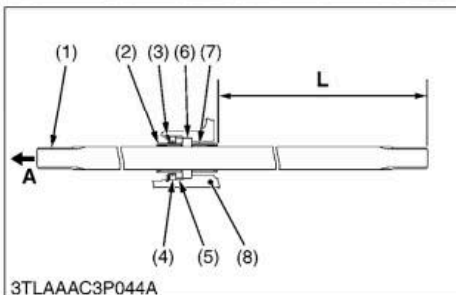
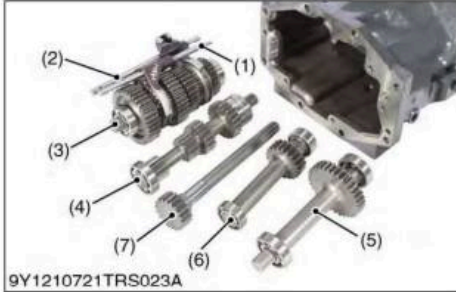
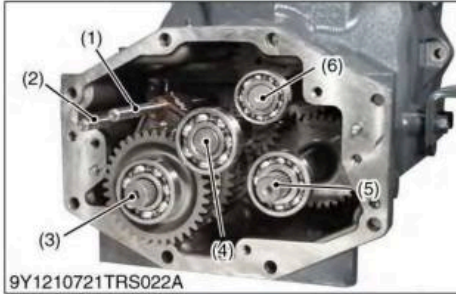
**[A] Range Gear Shift Lever**



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

- |                            |                                 |
|----------------------------|---------------------------------|
| (1) Shift Fork             | <b>H: High Speed Position</b>   |
| (2) Shift Arm              | <b>M: Middle Speed Position</b> |
| (3) Sub-arm                | <b>L: Low Speed position</b>    |
| (4) Rod                    | <b>N: Neutral Position</b>      |
| (5) Range Gear Shift Lever |                                 |

9Y1210761TRM0019US0



**Gear Shaft Assemblies**

1. Remove shift fork assembly (1), (2) together with main gear shaft assembly (4).
2. Remove counter gear shaft assembly (3), the PTO counter gear shaft assembly (5), the PTO gear shaft assembly (6), and then the main shaft (7).

**NOTE**

- To easily remove the gear shaft assembly, tap lightly a tool, through small holes from front inside wall of clutch housing.

- |                                 |                                     |
|---------------------------------|-------------------------------------|
| (1) Shift Fork Assembly (1-2)   | (5) PTO Counter Gear Shaft Assembly |
| (2) Shift Fork Assembly (3-4)   | (6) PTO Gear Shaft Assembly         |
| (3) Main Gear Shaft Assembly    | (7) Main Shaft                      |
| (4) Counter Gear Shaft Assembly |                                     |

9Y1210761TRS0030US0

**Front Axle Drive Shaft (4WD)**

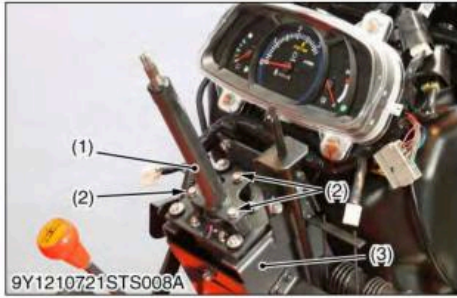
1. Pull out the front axle drive shaft (1) from the rear.

**(When reassembling)**

- Install the bearing (6), the spacer (5), the oil seal (4) and the internal snap ring to the clutch housing (8).
- Install the sleeve (7) to the front propeller shaft with dimension shown on the figure, then install the front propeller shaft from the rear.
- Install the sleeve (2) by using a rear propeller shaft tool.

- |                            |                                    |
|----------------------------|------------------------------------|
| (1) Front Axle Drive Shaft | (6) Bearing                        |
| (2) Sleeve                 | (7) Sleeve                         |
| (3) Internal Snap Ring     | (8) Clutch Housing                 |
| (4) Oil Seal               | <b>A: To Front Propeller Shaft</b> |
| (5) Spacer                 | <b>L: 538 mm (21.182 in.)</b>      |

9Y1210761TRS0031US0

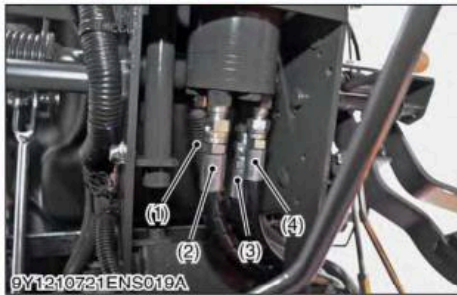


### Steering Post Assembly

- Remove steering post assembly mounting screws (2) and then remove steering post assembly.

- (1) Steering Post Assembly                      (3) Steering Controller  
 (2) Steering Post Assembly Mounting  
 Screw

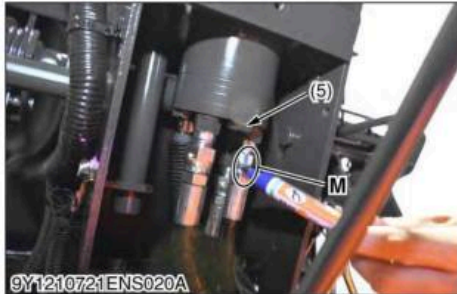
9Y1210761STS0013US0



### Power Steering Controller Hoses

- Since identification tapes are not installed to the hoses, mark the hoses as shown in the picture.
- After marking, disconnect the right delivery hose (3) and the left delivery hose (4).

Tightening torque	Main delivery hose retaining nut	46.6 to 50.9 N·m 4.8 to 5.2 kgf·m 34.7 to 37.6 lbf·ft
	Turning delivery hoses retaining nut	24.5 to 29.4 N·m 2.5 to 3.0 kgf·m 18.1 to 21.7 lbf·ft

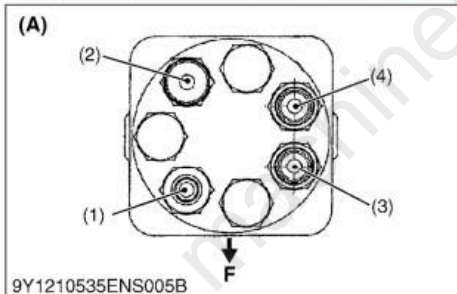


- (1) Return Hose  
 (2) Main Delivery Hose  
 (3) Delivery Hose (R.H.)  
 (4) Delivery Hose (L.H.)  
 (5) Relief Valve Plug

**(A) Steering controller viewing from the bottom side**

**F: Front**  
**M: Marking**

9Y1210761ENS0025US0



# Full Version Available

Kubota L4600 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-l4600-tractor-workshop-manual/>