

LX1038137

## TM8024 - Premium Tractors 6830 and 6930 Repair Rockshaft - Remove and Install the Position Sensor and Toothed Segment

---

### Rockshaft - Remove and Install the Position Sensor and Toothed Segment



LX1038137-UN: Position Sensor - Exploded View

#### LEGEND:

- A - Rockshaft
- B - Toothed segment
- C - Washer (2 used)
- D - Hex. socket screw (2 used)
- E - Seal
- F - Position sensor
- G - Washer (4 used)
- H - Cap screw (4 used)
- I - Protective cap

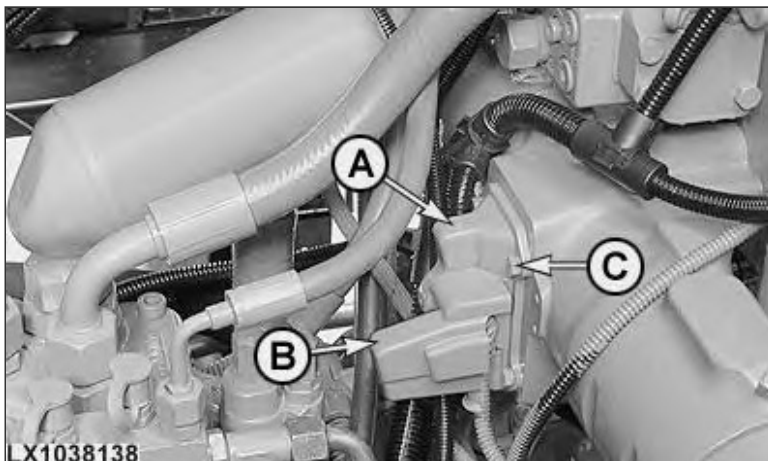
### Removing the position sensor and toothed segment

1. \_\_\_\_\_



*Comply with safety instructions; see reference "[Hydraulic System - General Instructions on Safety and Repair](#)" in Section 70, Group 15.*

---



LX1038138  
LX1038138-UN: Position sensor

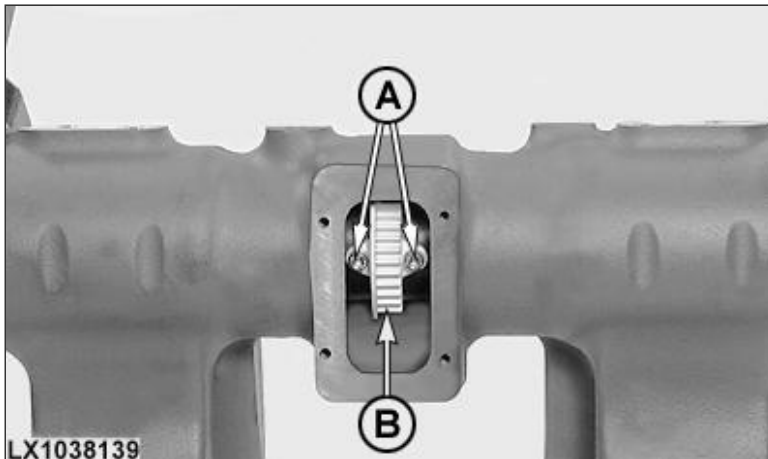
#### LEGEND:

- A - Position sensor
- B - Protective cap
- C - Cap screws (4 used)

Carefully clean the area around the position sensor (A).

2. Remove protective cap (B), and break the cable connection.

3. Take out the four cap screws (C), remove the washers and lift off position sensor (A).



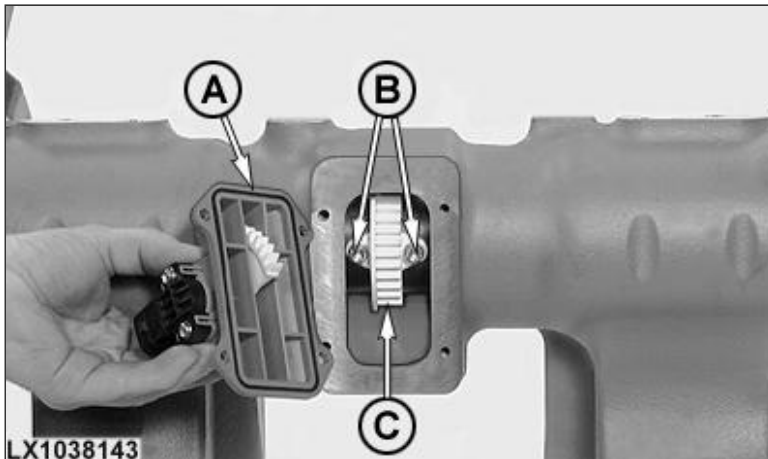
4. **LX1038139**  
LX1038139-UN: Toothed segment

LEGEND:

- A - Hex. socket screws  
B - Toothed segment

Take out hex. socket screws (A) and lift off toothed segment (B).

### Installing the position sensor and toothed segment



1. **LX1038143**  
LX1038143-UN: Toothed segment

LEGEND:

- A - Seal  
B - Hex. socket screws  
C - Toothed segment

The lift arms must be in the lowest possible position.

2. As shown, attach toothed segment (C) of position sensor to the rockshaft. The collar of the toothed segment must be on the r.h. side (as seen in direction of travel).
3. Install hex. socket screws (B).

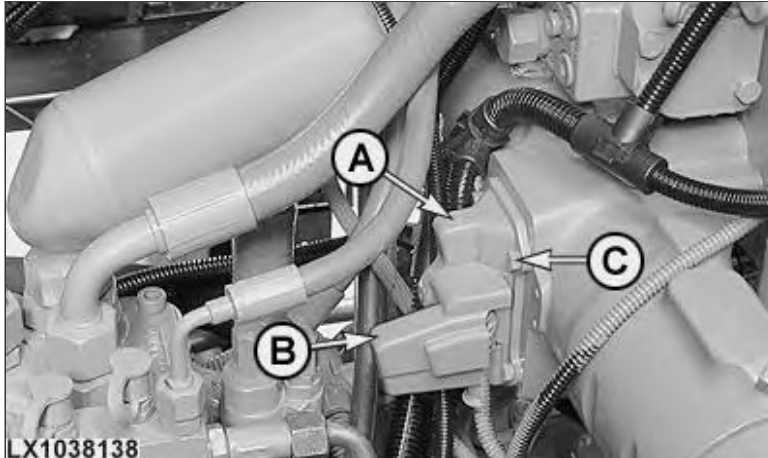
Item	Measurement	Specification
Toothed segment to rockshaft, hex. socket screws	Torque	$7 \pm 1 \text{ N}\cdot\text{m}$ $5 \pm 0.7 \text{ lb}\cdot\text{ft}$

4. Install gasket (A) on the position sensor housing.

5. **IMPORTANT:**

**The lift arms must be in the lowest possible position.**

Put the position sensor on the bearing block, making sure it is straight.



6. LX1038138  
LX1038138-UN: Position sensor

LEGEND:

- A - Position sensor
- B - Protective cap
- C - Cap screws (4 used)

Install cap screws (C) and washers.

Item	Measurement	Specification
Position sensor to bearing block, cap screws	Torque	5 N·m 3.7 lb-ft

7. Re-connect the cable.
8. Put the protective cap (B) on position sensor (A). Press the cap on until it clicks into place.
9. Feed the cables through the cable guide. Make sure that the cables are not bent or jammed.
10. Check the position sensor; see "Hydraulic System - Hitch Valve. Checking the Position Sensor" in Section 270, Group 15.
11. For calibration of rockshaft control see "BCU - Calibration and Input Addresses (Hitch Control)" in Section 245.

LX24603,00004AA-19-20060612