

# WSM

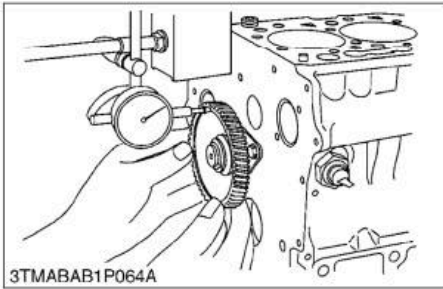
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WORKSHOP MANUAL  
TRACTOR, MOWER,  
FRONT LOADER

**BX1860, BX2360, BX2660,  
RCK48-18BX, RCK54-23BX,  
RCK60B-23BX, RCK48P-18BX,  
RCK54P-23BX, LA203, LA243**

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**Kubota**

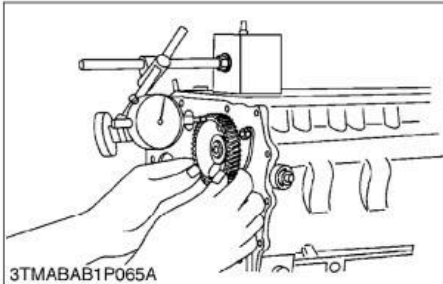


**Idle Gear 1 Side Clearance**

1. Set a dial indicator with its tip on the idle gear.
2. Measure the side clearance by moving the idle gear to the front and rear.
3. If the measurement exceeds the allowable limit, replace the idle gear collar.

Idle gear 1 side clearance	Factory spec.	0.20 to 0.51 mm 0.0079 to 0.020 in.
	Allowable limit	0.80 mm 0.031 in.

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**Camshaft Side Clearance**

1. Set a dial indicator with its tip on the camshaft.
2. Measure the side clearance by moving the cam gear to the front to rear.
3. If the measurement exceeds the allowable limit, replace the camshaft stopper.

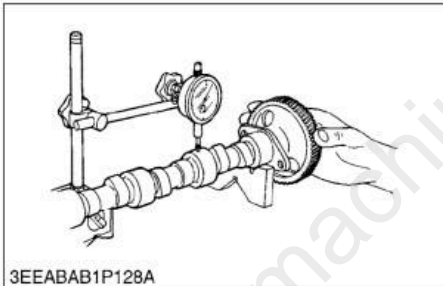
**[BX1860, BX2360]**

Camshaft side clearance	Factory spec.	0.15 to 0.31 mm 0.0059 to 0.012 in.
	Allowable limit	0.50 mm 0.020 in.

**[BX2660]**

Camshaft side clearance	Factory spec.	0.070 to 0.22 mm 0.0028 to 0.0086 in.
	Allowable limit	0.30 mm 0.012 in.

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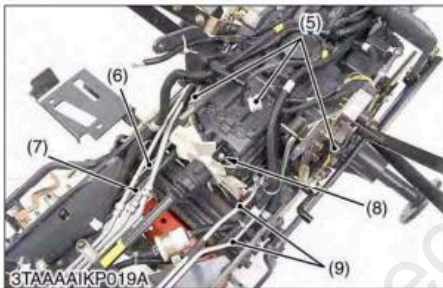
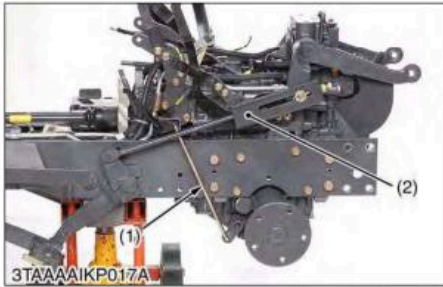


**Camshaft Alignment**

1. Support the camshaft with V blocks on the surface plate at both end journals.
2. Set a dial indicator with its tip on the intermediate journal.
3. Measure the camshaft alignment.
4. If the measurement exceeds the allowable limit, replace the camshaft.

Camshaft alignment	Allowable limit	0.01 mm 0.0004 in.
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**Transaxle Assembly**

1. Remove the differential lock rod (1) and disconnect the mower link (2).
2. Remove the brake rod (4).
3. Disconnect the pipes (3). (If equipped.)
4. Disconnect the connector (5).
5. Remove the rear coupling mounting bolt (8).
6. Disconnect the power steering pipes (9).
7. Remove the speed control rod (7).
8. Remove the wire harness clamps
9. Remove the frame brackets (10).

**(When reassembling)**

- Tighten the smaller bolt (M12) first.
- Before mounting the transaxle assembly on the tractor main frame, check the flatness of the frame brackets with a straight edge securely.

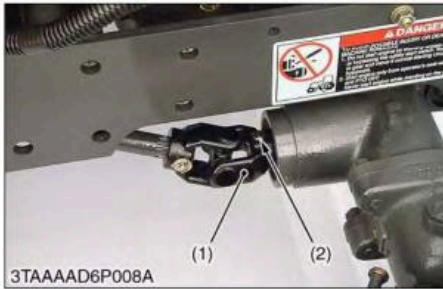
Tightening torque	Transaxle assembly mounting bolt (M12)	63 to 72 N·m 6.4 to 7.4 kgf·m 47 to 53 lbf·ft
	Transaxle assembly mounting bolt (M14)	124 to 147 N·m 12.6 to 15.0 kgf·m 91.2 to 108 lbf·ft
	Rear coupling mounting bolt (M8)	24 to 27 N·m 2.4 to 2.8 kgf·m 18 to 20 lbf·ft

**(Reference)**

- Speed control rod length (7) : 371 mm (14.6 in.)

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|---------------------------|---------------------------------|
| (1) Differential Lock Rod | (6) Front Wheel Drive Shaft     |
| (2) Mower Link            | (7) Speed Control Rod           |
| (3) Pipe                  | (8) Rear Coupling Mounting Bolt |
| (4) Brake Rod             | (9) Power Steering Pipe         |
| (5) Connector             | (10) Frame Bracket              |

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**Disconnecting Propeller Shaft**

1. Tap out the spring pins (2) and disconnect the universal joint (1) and spiral bevel pinion shaft.

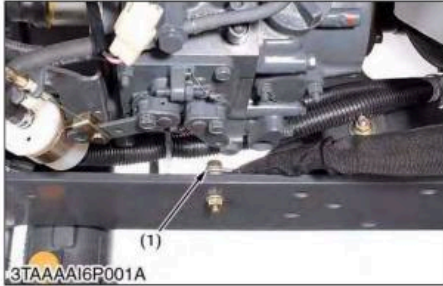
**(When reassembling)**

- Apply grease to the splines of the propeller shaft and universal joint.

(1) Universal Joint

(2) Spring Pin

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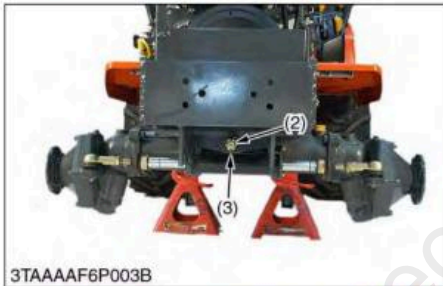
**Front Axle Assembly**

1. Remove the power steering hose clamp (1).
2. Place the garage jack under the front axle.
3. Remove the cotter pin (1).
4. Remove the slotted nut (2) of center pin and separate the front axle from the frame.
5. Disconnect the power steering cylinder hoses (4).

**(When reassembling)**

- After mounting the front axle assembly to the frame, be sure to adjust the front axle rocking force. (See page 3-S4.)
- Installing the cotter pin, be sure to split the cotter pin like an anchor

Tightening torque	Power steering cylinder hose	24 to 27 N·m 2.4 to 2.8 kgf·m 18 to 20 lbf·ft
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(1) Hose Clamp

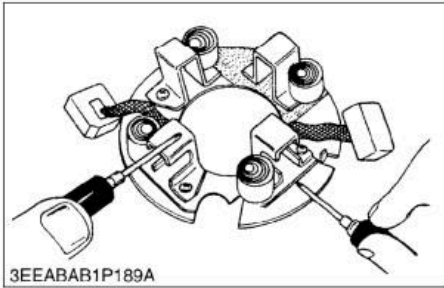
(2) Cotter Pin

(3) Slotted Nut (Adjusting Nut for Front Axle Rocking Force)

(4) Power Steering Hose

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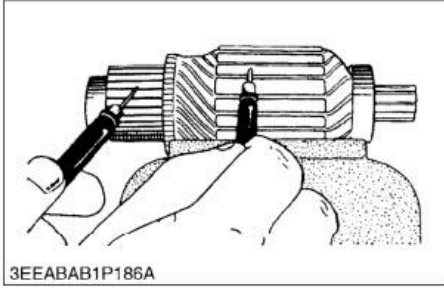


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**Brush Holder**

1. Check the continuity across the brush holder and the holder support with an ohmmeter.
2. If it conducts, replace the brush holder.

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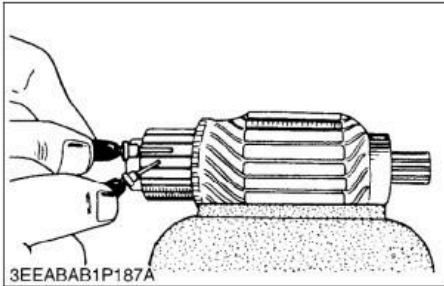


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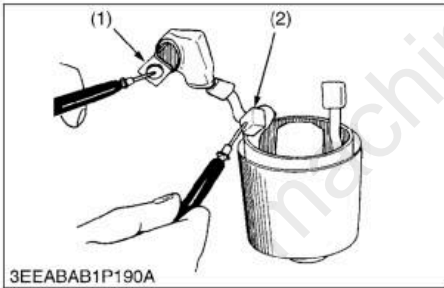
**Armature Coil**

1. Check the continuity across the commutator and armature coil core with an ohmmeter.
2. If it conducts, replace the armature.
3. Check the continuity across the segments of the commutator with an ohmmeter.
4. If it does not conduct, replace the armature.

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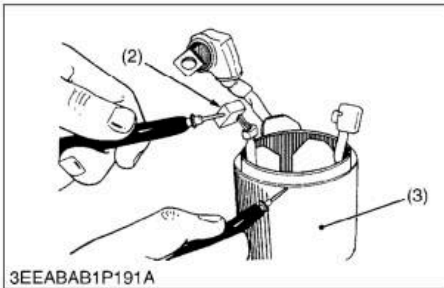
**Field Coil**

1. Check the continuity across the lead (1) and brush (2) with an ohmmeter.
2. If it does not conduct, replace the yoke assembly.
3. Check the continuity across the brush (2) and yoke (3) with an ohmmeter.
4. If it conducts, replace the yoke assembly.

(1) Lead  
(2) Brush

(3) Yoke

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# Full Version Available

Kubota BX1860 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-bx1860-tractor-workshop-manual/>