

# WSM

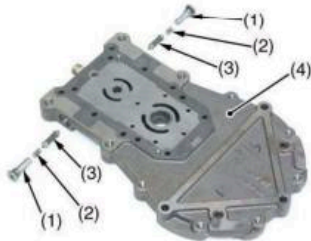
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WORKSHOP MANUAL  
**ZERO TURN MOWER**

**ZG20 ZG23**

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**Kubota**



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**Check Valve and High Pressure Relief Valve Assembly**

1. Remove the plug (1) and draw out the spring (2) and check and high pressure relief valve assembly (3).

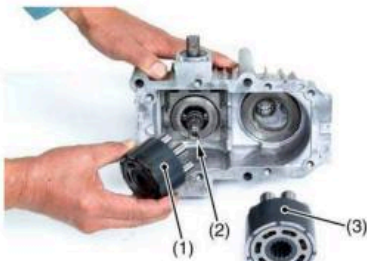
**(When reassembling)**

- Take care not to damage the O-ring on the plug.

Tightening torque	Check and high pressure relief valve plug	29.0 to 44.0 N·m 3.0 to 4.5 kgf·m 21.7 to 32.5 ft·lbs
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- (1) Plug
- (2) Spring
- (3) Check and High Pressure Relief Valve Assembly
- (4) Center Section

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**Removing Cylinder Block Assembly and Thrust Ball Bearing**

1. Lay the housing on its side.
2. Slide out the cylinder block assembly (pump) (1).
3. Slide out the cylinder block assembly (motor) (3).
4. Remove the thrust ball bearing (4).

**NOTE**

- Take care not to damage the surface of the cylinder blocks.

**(When reassembling)**

- Apply clean fluid to the surface of cylinder block.

- (1) Cylinder Block Assembly (Pump)
- (2) Pump Shaft
- (3) Cylinder Block Assembly (Motor)
- (4) Thrust Ball Bearing

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# 6 MOWER

### **Camshaft Break-in Lubricant**

Camshaft lubricant, Kohler Part No. **25 357 14-S** (Valspar ZZ613), should be used whenever a new camshaft and lifters are installed for proper break-in upon initial startup. Lubricant is included with each replacement camshaft and lifter, or may also be obtained separately in a 1/8 oz. handy dispensing tube by the part number listed. See Figure 2-6.



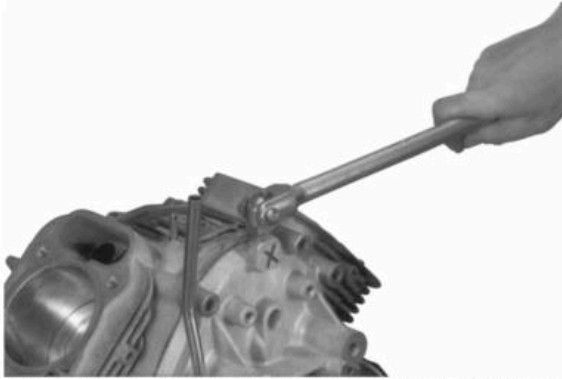
**Figure 2-6. Camshaft Break-in Lubricant.**

### **Spline Drive Lubricant**

Special spline drive crankshaft lubricant Kohler Part No. **25 357 12-S** is available in a 2.8 oz tube for use on all spline drive applications. This lubricant provides proper protection against wear-related damage. See Figure 2-7.



**Figure 2-7 Crankshaft Spline Drive Lubricant**



**Figure 9-63. Breaking Seal on Top Splitting Tab.**

#### **Governor Assembly**

The governor assembly is located inside the closure plate. If service is required, refer to the service procedures under "Governor Assembly" in Section 10.

#### **Oil Pump Assembly**

The oil pump is mounted to the inside of the closure plate. If service is required, refer to the service procedures under "Oil Pump Assembly" in Section 10.

# Full Version Available

Kubota ZG23 Zero Turn Mower 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-zg23-zero-turn-mower-workshop-manual/>