

Snap-on Tools Company  
Kenosha, WI 53141-1410 USA

Printed in USA 4-04

Snap-on Tools Company  
Kenosha, WI 53141-1410, USA

ZRKS6/3B

## Safety Information

### ⚠ WARNING

Particles may fly while repairing this tool.



**Wear safety goggles, user and bystanders.**

*Flying particles can cause injury.*



Improper repair can cause broken tools.

- **Read and follow instructions for proper repair.**
- **Do not immerse ratchet in fluids.**
- **Do not replace worn parts individually.**
- **Use all parts found in this kit.**

*Broken tools can cause injury.*

## Disassembly

To disassemble the Sealed Ratchet, complete the following steps. Refer to *Figure 1* for the parts list.

### 1. Remove the reverse lever.

Unscrew the screw (A) retaining the reverse lever (I) and remove lever and screw.

### 2. Remove the inner components.

A. Unscrew the two screws (A) holding the cover plate (B), and pull on the square drive to remove cover plate (B), O-ring (C) and gear seal (E). Be careful not to lose the spring-loaded pawl (H).

B. Remove the pawl (H), ball and spring or plunger assembly (J), washer (G) and pawl seal (F).

### 3. Clean and inspect ratchet body and cover plate.

A. Check the ratchet body (L) and cover plate (B) for excessive wear, cracks, burrs, chrome peeling, rust, etc. Replace ratchet body (L) and/or cover plate (B) if needed.

B. Clean thoroughly with a solvent and dry completely before installing any replacement parts.

## Assembly

To assemble the Sealed Ratchet, complete the following steps. Refer to *Figure 1* for the parts list.

## Important

The ratchet interior must be free of all foreign materials (e.g., dirt, metal chips) to ensure proper operation of the ratchet.

### 1. Apply sealed ratchet lubricant.

Use only sealed ratchet lubricant (K), to lubricate sealed ratchets. This lubricant has been specially formulated to ensure optimum ratchet performance.

Apply a light coating of sealed ratchet lubricant (K) to gear (D) hubs and faces and at pawl (H) hubs and outside surfaces.

### 2. Replace pawl seal and washer.

- Insert pawl seal (F) into lower hole of ratchet body (L), oriented as shown in Figure 1.
- Place washer (G) over pawl seal (F).
- Insert plunger assembly (J) or ball and spring into hole located in lower part of ratchet body (L) with plunger or ball end located outside of hole.
- Use pawl (H), with square facing down, to press the plunger assembly or ball and spring (J) into hole.
- Inset pawl (H) hub into the hole in the ratchet body (L).
- Maintain hold on pawl (H) and insert gear (D) into ratchet body (L). This helps hold the pawl (H) in place.

### 3. Install inner components.

- Place the O-ring (C) around the cover plate (B) edge by stretching it just enough to enable positioning.
- Insert the gear seal (E) into the cover plate (B), oriented as shown in Figure 1.
- Align and level cover plate (B) over gear assembly. Apply firm pressure on all sides of the cover plate (B), until the cover plate contacts its locating shoulder.

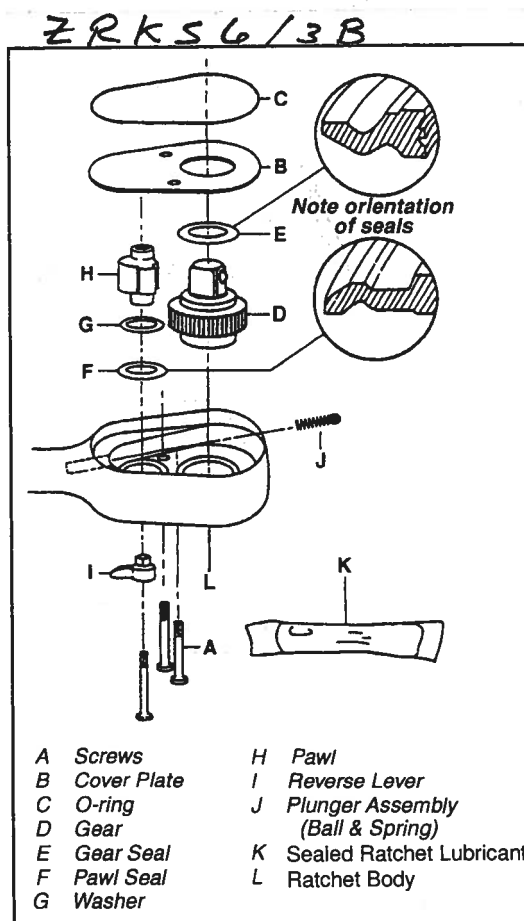


Figure 1: Sealed Ratchet Assembly and Parts List

✓ Rotate the gear (D) slightly to ensure proper gear seal (E) sealing.

D. Insert and tighten screws (A), and check the ratcheting action.

✓ If assembly is difficult, a part may be improperly located or aligned. If any part gets out of position during assembly, disassemble and reassemble as required. Do not use excessive force.

### 4. Insert reverse lever.

- Insert reverse lever (I) into pawl (H).
- Switch reverse lever (I) back and forth to check for proper pawl/lever orientation.
- Check ratcheting action in both directions.
- Insert screw (A) into reverse lever (I) and secure to pawl (H).