

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

## Sealed Ratchet Repair Instructions

**Snap-on.**

# INSTRUCTIONS

Snap-on Tools Company  
Kenosha, WI 53141-1410, USA  
ZRRK936  
Printed in USA 8-99

### 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 inner components.
  - Unscrew the two screws (H) holding the cover plate (D), and pull on the square drive to remove cover plate and gear (F).
  - Remove the pawl (C) and plunger assembly (A) or ball and spring.
  - Remove the reverse lever (B).
2. Clean and inspect ratchet body (G) and cover plate (D).
  - Check the ratchet body (G) and cover plate (D) for excessive wear, cracks, burrs, chrome peeling, rust, etc. Replace ratchet body (G) and/or cover plate (D) if needed.
  - Clean thoroughly with a solvent and dry completely before installing any replacement parts.

ERKR936

## Assembly

To disassemble 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.

- ✓ This kit contains 1 cc of lubricant. Use *only sealed ratchet lubricant to lubricate sealed ratchets.*
- 1. Using a very small amount of lubricant, lightly coat the pawl area that will be in contact with the plunger assembly.
- 2. Insert and seat reverse lever (B).
- ✓ Reverse lever must have O-ring installed.
- 3. Insert plunger assembly (A) into hole (I) located in lower part of ratchet body with plunger end located outside of hole.
- 4. Insert pawl (C) into ratchet body (G). The side face of the pawl can be used to compress the spring and plunger, then rotated to seat onto the post of the reverse lever (B).
- 5. Insert the gear (F) into the ratchet body (G). Rotating the pawl a few degrees should allow easier assembly.
- 6. Lubricate the gear and pawl using the amounts specified in *Table 1*. Place half of the required lubricant between the gear and pawl. Switch the reverse lever to the opposite position and place the remaining half of the required lubricant between the gear and pawl.

Table 1

Drive Size	Amt.	Fraction of Tube
1/4"	0.2 cc	1/5
3/8"	0.4 cc	2/5
1/2"	0.7 cc	7/10

- 7. Insert the gear seal (E) into the cover plate (D), oriented as shown in *Figure 1*.

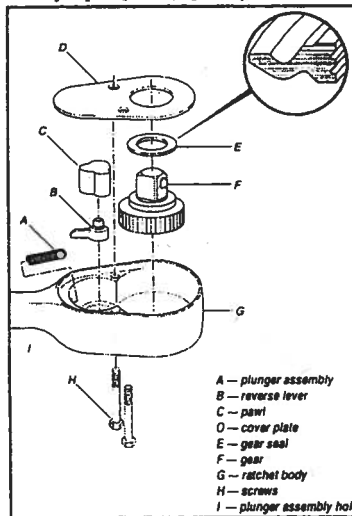


Figure 1: Sealed Ratchet Assembly and Parts List

- 8. Align and level cover plate (D) over gear assembly. Apply firm pressure on all sides of the cover plate, until the cover plate contacts its locating shoulder.

✓ Rotate the gear (F) a few revolutions in both directions to ensure proper lubrication and gear seal (E) seating.

- 9. Insert and tighten screws (H). Refer to *Table 2* for torque specifications. 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.

Table 2

Square Drive	Torx Driver	Torque Specification
1/4"	T8	5 ± 1.5 in lb
3/8"	T8	8 ± 1.5 in lb
1/2"	T15	12 ± 1.5 in lb