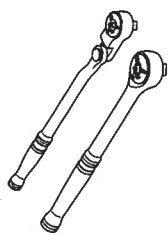


**Snap-on**

**Sealed Round Head  
Ratchet Repair  
Instructions**



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

**INSTRUCTIONS**

ZRK R872-860

Snap-on Tools Company  
Kenosha, WI 53141-1410, USA  
ZRK R872-860  
Printed in USA 2-01

**Safety Information**

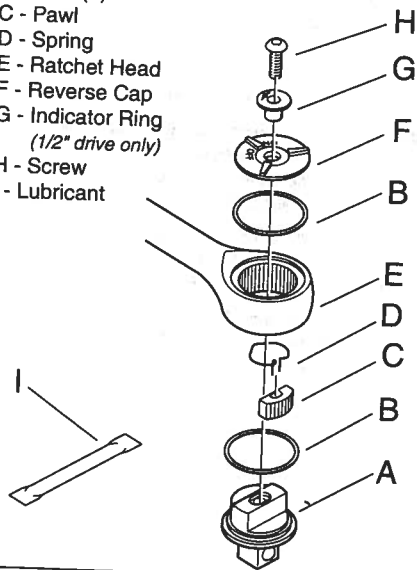
**⚠ WARNING**

Position the spring away from any people to prevent injury.  
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.  
• Install entire repair kit.  
Broken tools can cause injury.

**Disassembly, Cleaning and Assembly**

- A - Drivebody
- B - Seal (2)
- C - Pawl
- D - Spring
- E - Ratchet Head
- F - Reverse Cap
- G - Indicator Ring  
(1/2" drive only)
- H - Screw
- I - Lubricant



**Disassembly**

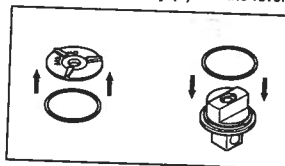
1. Remove the screw (H).
2. Remove indicator ring (G) (1/2" drive only), reverse cap (F), two seals (B), drivebody (A), pawl (C) and spring (D) from the ratchet.

**Cleaning**

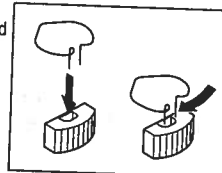
1. Clean the ratchet teeth and seal pockets with a solvent. Dry completely.
2. Check the ratchet teeth for obvious cracks or chips. If damaged, replace entire ratchet.

**Assembly**

1. Open the repair kit and prepare for assembly.
2. Lubricate all internal repair part surfaces with a light coat of the lubricant (I) provided in the ratchet repair kit. Use only a portion of the lubricant (I) provided.
3. Install seals (B) on the drivebody (A) and the reverse cap (F).

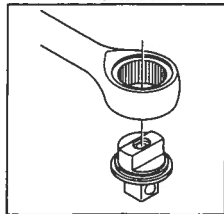


4. Install spring legs (D) into D-shaped hole on flat side of pawl (C). Push one leg into the hole first, then gently walk the second leg into the hole.

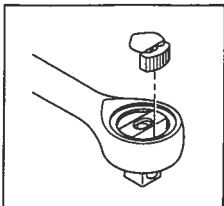


- ✓ Do not pinch the spring together for installation, the spring will bend and the shape will become distorted.
- ✓ Be sure the legs of the spring do not cross when installed in the pawl hole.

5. Install drivebody (A) into ratchet head as shown.

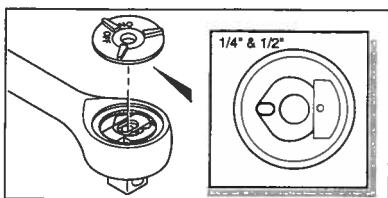


6. Install pawl-spring assembly into drivebody (A) as shown.



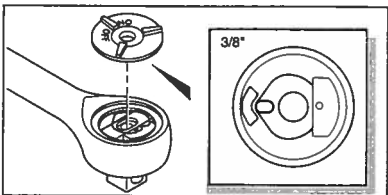
7.  $\frac{1}{4}$ " ,  $\frac{1}{2}$ "

— Slide pin on back of the reverse cap (F) into the spring (D).



$\frac{3}{8}$ "

— Hook spring (D) between pin and protector by sliding the pin onto the spring.



#### IMPORTANT

In all cases, the spring (D) must be hooked around the pin for the ratchet to operate correctly. Improper assembly will damage the ratchet.

- ✓ Views show the proper spring capture on the underside of both reverse cap styles.

8.  $\frac{1}{4}$ " ,  $\frac{3}{8}$ "

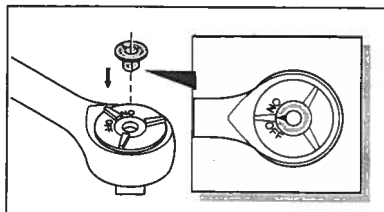
Go to step 9.

$\frac{1}{2}$ "

Press the indicator ring (G) through the hole on the reverse cap (F).

Be sure to:

- Align the indicator ring (G) with the slot in the drivebody (A), and
- Align the direction indicator with the ON and OFF markings on the reverse cap (F) as shown.



9.  $\frac{1}{4}$ " ,  $\frac{3}{8}$ "

— Install the screw (H) through the reverse cap (F).

$\frac{1}{2}$ "

— Install the screw (H) in the hole of the indicator ring (G).

$\frac{1}{4}$ " ,  $\frac{3}{8}$ " ,  $\frac{1}{2}$ "

Test ratchet in both directions before seating screw (H) to the appropriate torque specification:

$\frac{1}{4}$ " drive	$11 \pm 2$ in. lbs.
$\frac{3}{8}$ " drive	$20 \pm 2$ in. lbs.
$\frac{1}{2}$ " drive	$35 \pm 5$ in. lbs.

#### Checking the Assembly

Before using the ratchet, make sure that it operates smoothly in both the ON and OFF directions, and that there is no excessive drag when operating the reverse cap.

If ratchet is not functioning properly after assembly:

- **A seal may have rolled over, causing too much drag when the ratchet or reverse cap is operated.**
  - Disassemble the ratchet, check to be sure the seals (B) are seated properly and then reassemble the ratchet.
- **Both legs of the spring may not be inserted into the pawl hole.**
  - Remove the reverse cap (F) and be sure that both legs of the spring (D) are inserted into the D-shaped side of the pawl.
- **Spring may not be engaged by reverse cap pin.**
  - Remove the reverse cap (F) and be sure that the spring (D) is engaged by reverse cap pin. Repeat steps 4-9.