



Sturtevant Richmond

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Ratchet Renewal Kit - Ratchet Replacement Instructions

For use with all S/R ratcheting torque wrenches.

Needed Items

1. Correct size Ratchet Renewal Kit.
2. 1/8" or 3mm flat tip screwdriver.
3. Snap ring pliers - inside.
4. High pressure grease w/molybdenum disulfide.

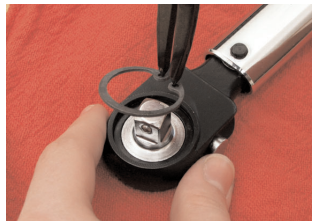
Step 1

Check package for correct size ratchet.



Step 2

Remove snap ring.



Step 3

Remove square drive. Lift straight out.



Step 4

Remove slide pin and ball. Use caution - ball is under pressure from spring beneath it.



Step 5

Remove spring.



Step 6

Clean head. Remove dirt and grease. Do not forget to clean inside spring recess.



Step 7

Open Ratchet Renewal Kit.



Step 8

Use high pressure molybdenum disulfide grease to lubricate parts.



Step 9

Lubricate inside of head very lightly.



Step 10

Insert spring in spring recess.



Step 11

Insert ball. Ball sits on top of spring.

**Step 12**

Lightly lube bottom of slide pin.

**Step 13**

Insert slide pin. Slide pin goes over top of ball and compresses spring.



Use flat tip screwdriver to assist in guiding slide pin and compressing spring.



Upon completion slide pin should slide back and forth easily between two positions.

**Step 14**

Lube square drive ratchet teeth very lightly.

**Step 15**

Insert square drive ratchet in head.

**Step 16**

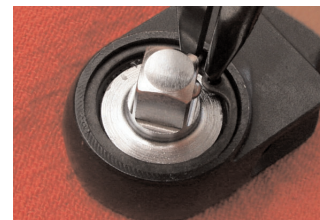
Lube one side of washer lightly.

**Step 17**

Insert washer with lubricated side towards ratchet.

**Step 18**

Insert snap ring. Assembly is complete when snap ring has been inserted.

**1/4" Ratchet Renewal Kit (816998) Components**

<u>Spindle</u>	<u>Steel Ball</u>	<u>Spring</u>	<u>Washer</u>	<u>Retaining Ring</u>	<u>Reversing Pin</u>
811350	816888	816834	816829	816832	865299

3/8" Ratchet Renewal Kit (816958) Components

<u>Spindle</u>	<u>Steel Ball</u>	<u>Spring</u>	<u>Washer</u>	<u>Retaining Ring</u>	<u>Reversing Pin</u>
813378	816908	816909	816830	816748	812221

1/2" w/3/8" Body Ratchet Renewal Kit (816959) Components

<u>Spindle</u>	<u>Steel Ball</u>	<u>Spring</u>	<u>Washer</u>	<u>Retaining Ring</u>	<u>Reversing Pin</u>
813380	816908	816909	816830	816748	812221

1/2" Ratchet Renewal Kit (816956) Components

<u>Spindle</u>	<u>Steel Ball</u>	<u>Spring</u>	<u>Washer</u>	<u>Retaining Ring</u>	<u>Reversing Pin</u>
813467	816890	816836	816831	816837	813599

3/4" w/1/2" Body Ratchet Renewal Kit (816957) Components

<u>Spindle</u>	<u>Steel Ball</u>	<u>Spring</u>	<u>Washer</u>	<u>Retaining Ring</u>	<u>Reversing Pin</u>
813468	816890	816836	816831	816837	813599

3/4" Ratchet Renewal Kit (816999) Components

<u>Spindle</u>	<u>Steel Ball</u>	<u>Spring</u>	<u>Washer</u>	<u>Retaining Ring</u>	<u>Reversing Pin</u>
813520	816894	816895	816896	816749	865301

Some components may be ordered individually, others are offered in convenient multi-packs of five or 10 pieces. Contact Customer Service if you need to order individual part numbers.