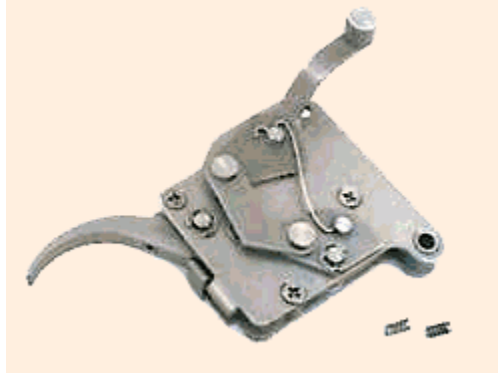


# **THE JEWELL TRIGGER (Patent No. 4671005)**

**REMINGTON 700,40X, ETC. CUSTOM BENCHREST & SAKO FINNFIRE P94**



## **I. GENERAL INFORMATION**

Covered by 17 claims in Patent No. 4671005. The unique geometry was designed to allow minimum load at the sear engagement point and to provide maximum adjustability in pull force, sear engagement, and overtravel without removing the action from the stock or the trigger from the action.

## **II. MATERIALS**

- A.** Internal parts are 3/16" 440C stainless steel, heat treated and tempered throughout to 58 Rockwell C scale.
- B.** Side plates are .050" aircraft grade 300 series stainless sheet steel.
- C.** All hardware, including through pins, main spring, spacers, and screws, are stainless steel.

## **III. FEATURES**

- A.** Modular design allows total disassembly for maintenance and cleaning.
- B.** The forward mounting spacer and a pin in the firing pin stop that operates in a hole in the left side plate allows the trigger to stay together as a single assembly when not installed.
- C.** The light load at the sear enables short, crisp, creep-free, and repeatable operation.
- D.** Installation: The mounting hold pattern allows use in most actions that utilize the Remington 700 type trigger.
- E.** Range of Adjustment:
  - 1. BR (Light Pull Competition Model): 1.5 oz. to 3.0 oz.)
  - 2. HVR (Hunting/Varmint Model) with:

- a. Spring A: 8.0 to 56.0 oz.
- b. Spring B: 2.0 oz. to 16.0 oz.
- c. Spring C: 1.5 oz. to 3.0 oz.
- d. Pull above 56 oz. (3 1/2. lb.) optional.

**Note: Settings below those stated is not recommended.**

## F. OPTIONS

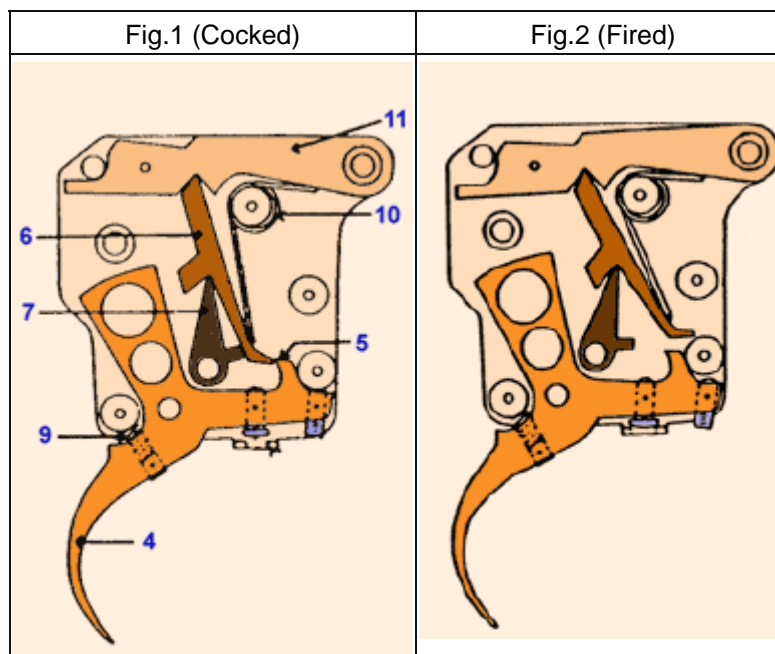
1. Positive Cam Safety (BR or HVR).
  - a. Bottom mounted lever, left or right
  - b. Top mounted lever (Rem. 700 type) left or right
2. Bolt release lever, (Rem. 700 type) left or right
3. Two-stage operation (HVR only).

## BR TRIGGER

The firing pin block (11) is held in the cocked position by the vertical alignment of upper lever (6) and lower lever (7) which is captured in the locked position by sear (5).

Rotation of the trigger shoe (4) releases sear (5) from the upper lever (6) allowing the upper lever (6) and lower lever (7) to collapse to a folded position (See Figure 2), allowing block (11) to fall, thus releasing the firing pin.

The levers (6) and (7) will stay in the collapsed position until the bolt is open, at which time spring (10) forces the levers (6) and (7) back to cocked position. Sear (5) is reset by compression of spring (9).

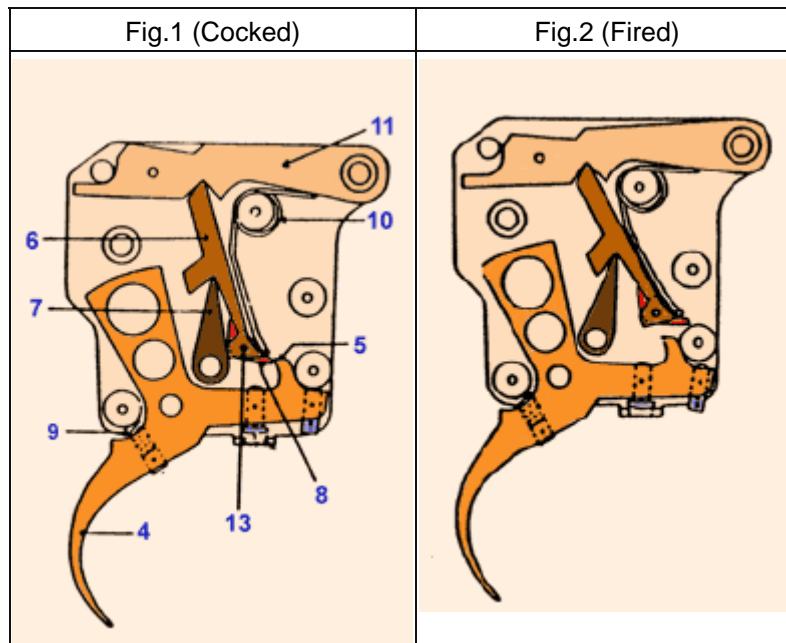


## HVR TRIGGER

The firing pin block (11) is held in the cocked position by the vertical alignment of upper lever (6) and lower lever (7) which is captured in the locked position by sear (5).

Rotation of the trigger shoe (4) releases sear (5) from the upper lever sear (8) allowing the upper lever (6) and lower lever (7) to collapse to a folded position (see Figure 2), allowing block (11) to fall, thus releasing the firing pin.

The levers (6) and (7) will stay in the collapsed position until the bolt is open, at which time spring (10) forces levers (6) and (7) back to cocked position. Sear (5) is reset by rotation of upper lever sear (8) on its pivot pin (13). It is maintained in a down loaded position by the end of spring (10).



## ADJUSTMENT PROCEDURES (BR and HVR)

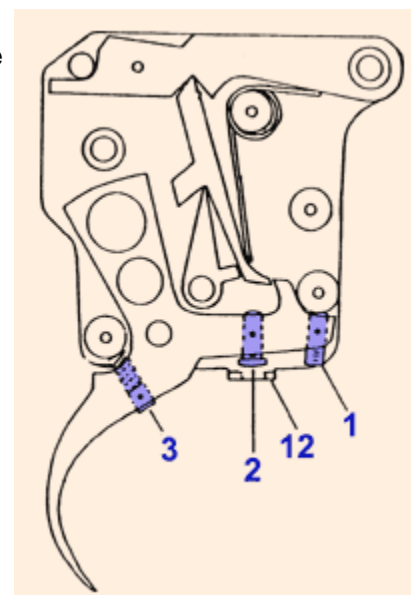
The trigger has been adjusted for most applications when shipped. Personal preference, however, may require adjustment on one or more settings.

All adjustment screws are filled with Nylon inserts to maintain their set positions. The use of external locking compounds is not necessary.

Screw (1) sets sear engagement (in = less sear engagement).  
 Screw (2) sets overtravel (in = more overtravel).  
 Screw (3) sets pull force (in = more pull force).

### Initial Adjustment Procedure:

1. Ensure that rifle is unloaded!!!



2. Cock action, turn screw (1) inward until action fires. Back screw out approximately 3/4 turn.
3. Recock action, turn screw (2) out until it contacts tab (12). While applying pull on the trigger shoe, turn screw inward until action fires. Turn screw inward another 1/4 turn.
4. Recock action and measure pull force. Turn screw (3) in for more pull force or out for less pull force. Do not exceed specifications for pull settings.
5. Operate action for your particular method of shooting and adjust as needed.

**Note:** *Rapid firing practices may require slightly more sear engagement or pull force to prevent unwanted firing.*

**Cleaning:** Flush after each barrel cleaning with lighter fluid. The use of lubricants is not recommended.

### SAFETY (OPTIONAL) BR and HVR

The safety, when applied, rotates a cam (14) to a position that pushes the sear of the upper level (Fig. 1) off the sear of the trigger shoe and blocks movement of the operating parts, allowing the trigger shoe to move freely. The safety cam is spring loaded to either the fire or safe position, as selected. Rotation of the safety cam is made possible with either a single, bottom activated lever, or the top activated multiple-link arrangement

Care must be taken on installation that there is positive clearance between the levers and stock, as some stock or trigger guard material may require trimming. Ensure that the safety levers can operate to the full range of travel.

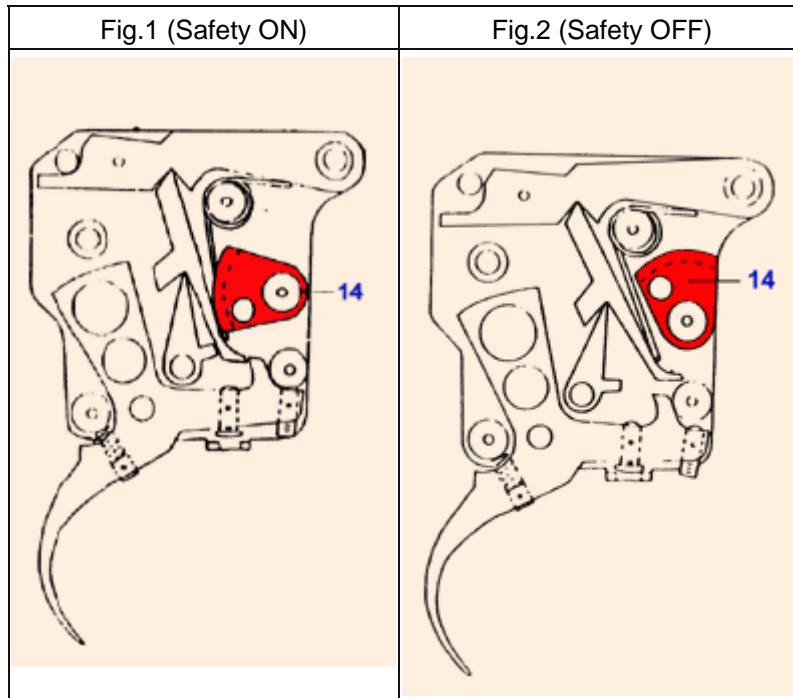
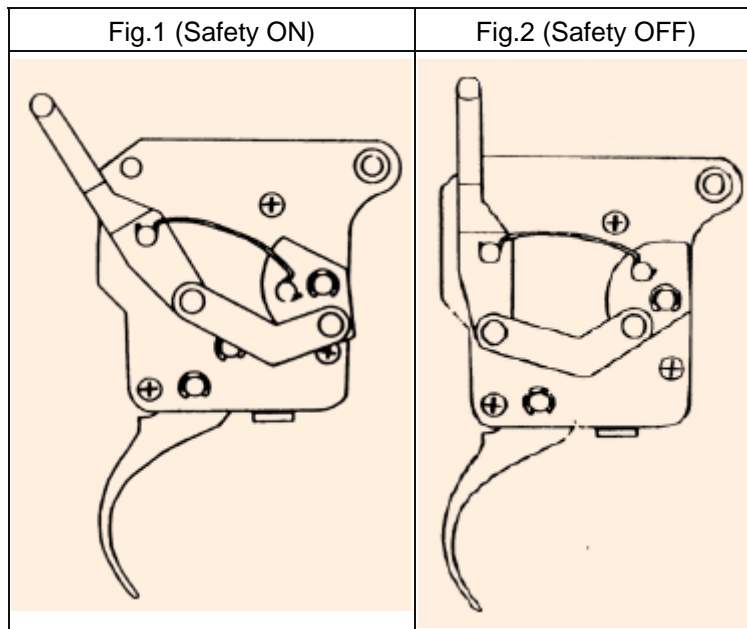
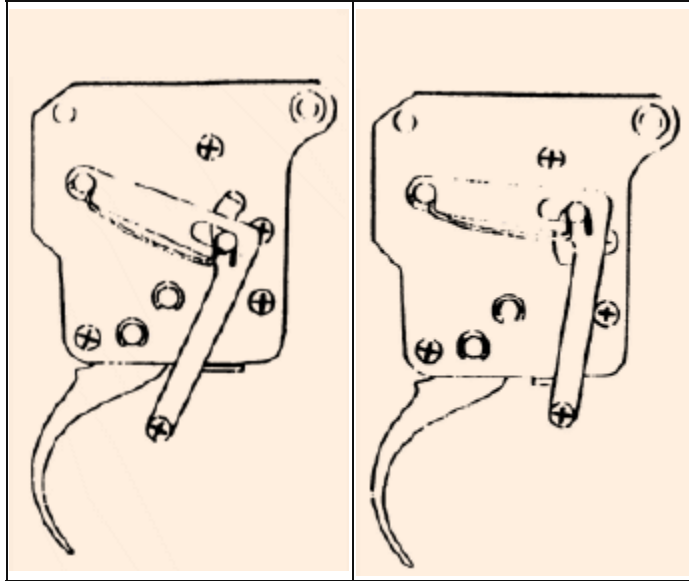
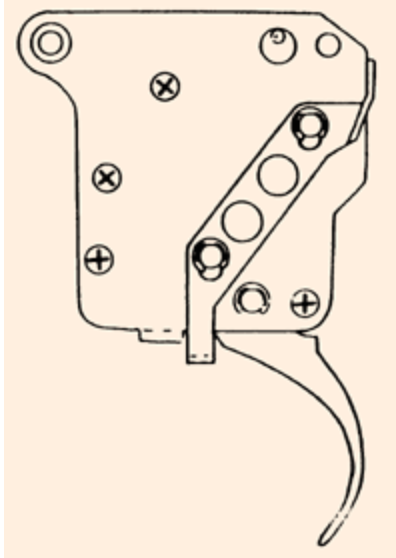


Fig.1 (Safety ON)	Fig.2 (Safety OFF)
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### **BOLT RELEASE (OPTIONAL) REMINGTON 700 TYPE**

The bolt release is similar to the standard Remington 700 lever, but is made of .050- 4130 Aircraft Grade Sheet Steel. It operates on two of the through pins in elongated slots and is returned by the factory provided spring/lever.



### **LIMITED LIABILITY AND WARRANTY**

Jewell Triggers guarantees that its products are free from defects in materials and workmanship for a period of one (1) year from date of purchase. In the event of any defect in materials or workmanship, Jewell Triggers' sole liability therefore shall be the repair or replacement of any such products that are defective in materials or workmanship, at the option of Jewell Triggers. The repair or replacement of any such products(s) shall be Jewell Triggers' sole responsibility. This warranty specifically excludes any and all consequential or accidental damages. No other warranties or liability whatsoever are either expressed or implied. If any such warranties shall be imposed by law notwithstanding this provision, then such warranties shall be the responsibility of Jewell Triggers' immediate buyer. By way of example, and not limitation, there shall be no warranties of merchantability, use of trade, or fitness for a particular purpose.

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