

**SERVICE MANUAL**  
**MODEL C 3 ARMY CAMERA**



**ARGUS INCORPORATED**  
**ANN ARBOR, MICHIGAN**

## INSTRUCTIONS FOR ADJUSTING RANGE FINDER

### Figure A

There are only two adjustments to be made in correcting the rangefinder, when measured distance from the front plate of the camera to target or subject matter does not agree with the reading on the rangefinder dial scale. Both of these adjustments must be made without removing rangefinder assembly or lenses from camera.

#### Equipment:

- (1) White cardboard target about 2 ft. x 2 ft. with black vertical and horizontal lines about 1/4 inch wide and several inches apart for use at 25 ft. distance.
- (2) Infinity target to be a vertical object (post, tree, etc.) at about 200 feet or more from camera.
- (3) Wrench for removing rangefinder cap.
- (4) Small screw driver.
- (5) Tripod or any firm object on which camera can be firmly placed.

#### Procedure: (Vertical adjustment)

First make certain that the idler gear or coupler between focus barrel and rangefinder dial wheel is properly set. Information on this is contained in the camera instruction book. Rotate rangefinder dial wheel to position marked infinity on dial scale. Remove (with special wrench) the rangefinder cap which covers the adjustment screws "A1" and "A2" in diagram. Sight infinity target through rangefinder window. If vertical line appears broken, place tip of screw-driver

against edge of screw head "A2" and carefully slide forward or backward in slot, at same time noting how the upper half of vertical line is moved. Moving screw toward front of camera, moves image (or vertical line) to the left. In the opposite direction, the vertical line is moved to the right. Adjustment on infinity setting is complete when vertical line appears as one line (unbroken).

(Horizontal Adjustment)

Place camera on tripod. Set rangefinder dial at 25 feet, and place target with horizontal line at 25 feet from front of camera. Sight target through rangefinder window. If a horizontal line appears as two lines, the adjustment is easily made by tightening one or the other of the two screws marked "A1" and "A2" in diagram. Tightening "A1" raises image on target. Tightening "A2" lowers the image. When a horizontal line appears as one line, the adjustment is complete.

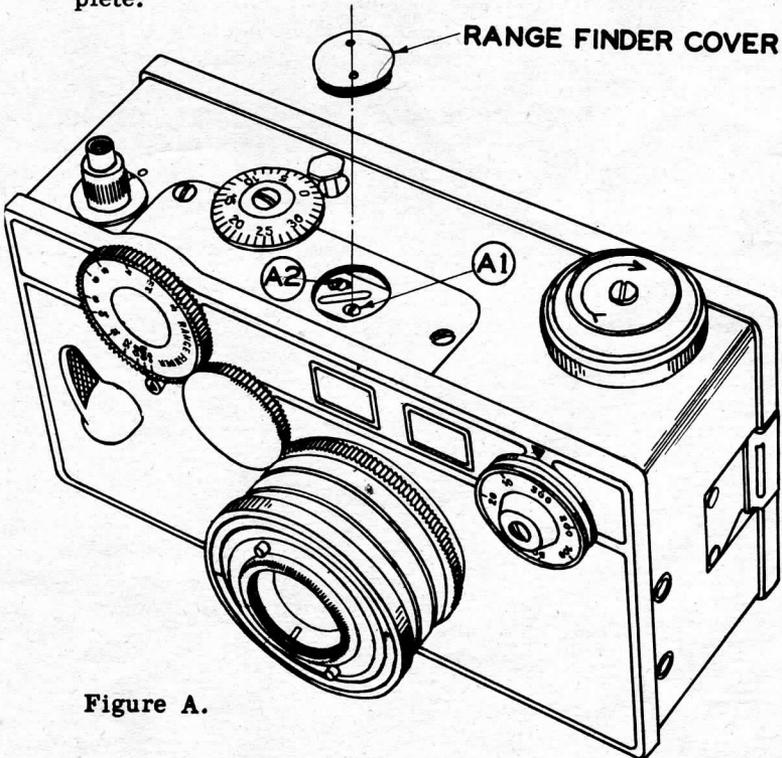


Figure A.

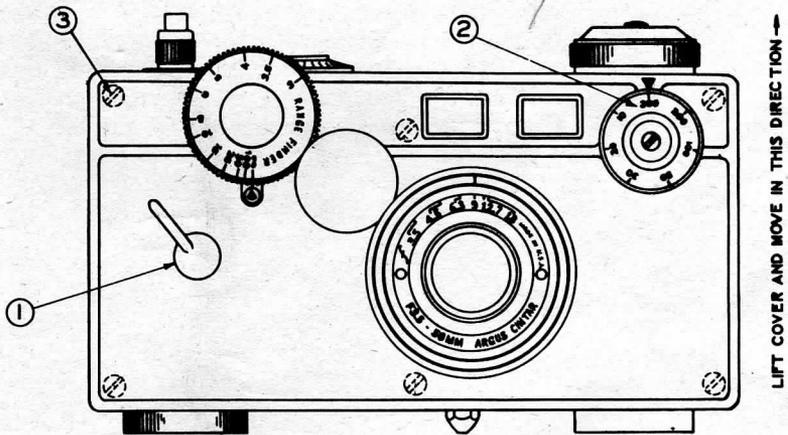
## TO REMOVE CAMERA FRONT PLATE

### Figure B

#### Procedure:

- (1) Loosen set screw in cocking lever (1), then unscrew cocking lever from shaft.
- (2) Set shutter speed button (2) to 1/300 to relieve tension on cam follower.
- (3) Raise covering over front plate screws (3) at four corners, and cut covering where other two screws are located.
- (4) Remove the six-inch screws. Carefully lift front plate about 1/4 inch from bakelite case and then slide front plate in direction of top of camera. This will prevent bending pin in cam follower.

Figure B



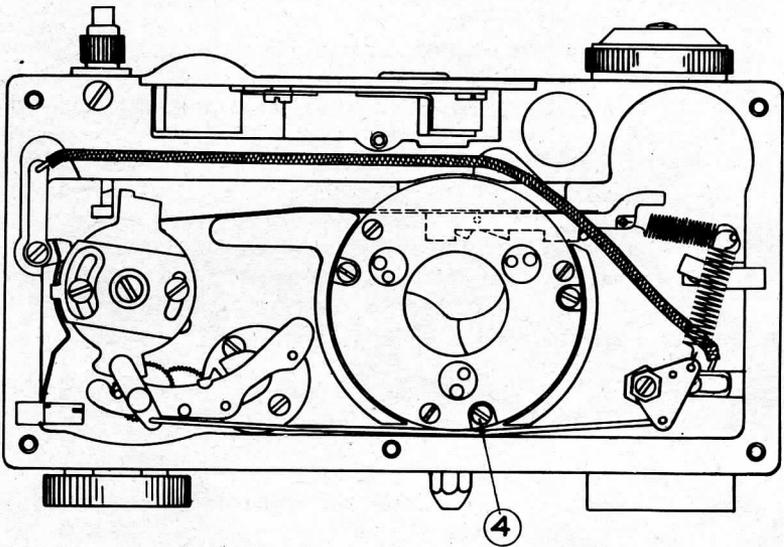
## TO REPLACE SHUTTER

Figure C

### Procedure:

To replace shutter--remove the three mounting screws (4) from shutter plate and install new shutter in same position. It may be necessary to loosen screws (4) just enough to slightly shift the position of the shutter assembly toward or away from the shuttle cock catch (12), see figure "D". If shutter blade arm is too close to shuttle cock, the blades will open too far and sometimes stick in shutter blade housing. If shutter blade arm is too far from shuttle cock, the shutter will not open fully. Tighten screws when shutter is positioned.

Figure C



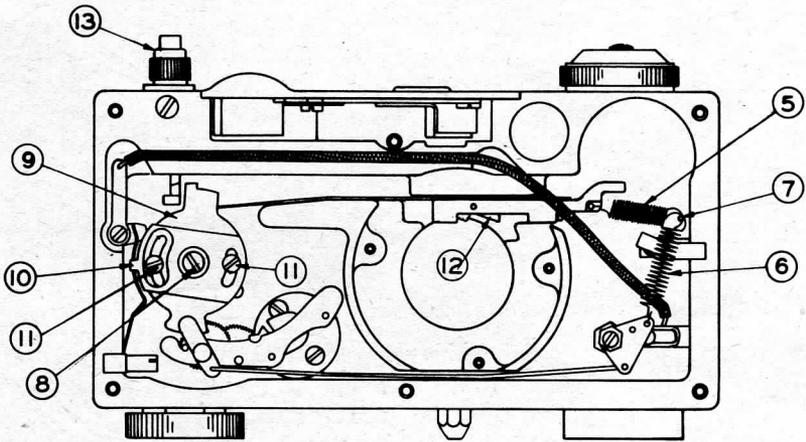
## TO REPLACE SHUTTLE COCK ASSEMBLY

### Figure D

#### Procedure:

- (1) Remove shutter as described in figure "C".
- (2) Unhook springs (5 & 6) from post (7).
- (3) Take out screw (8) and remove shuttle cock assembly.
- (4) Transfer shutter release cam (9), switch release arm (10) and two screws (11) from old assembly to approximately the same position on the new assembly.
- (5) Set shutter release to "I" position on dial (13).
- (6) Install shutter cocking lever (1) Figure "B" to check movement of shuttle cock and shutter before installing front plate. Cock shutter by depressing cocking lever. While holding cocking lever down, press shutter release (13) and gradually release pressure on cocking lever. Watch shutter blades open slowly. Shutter must open fully but not so far that the blades will bind in housing.

Figure D



**TO REPLACE SHUTTER ESCAPEMENT AND  
SHUTTER RELEASE ASSEMBLY**

**Figure E**

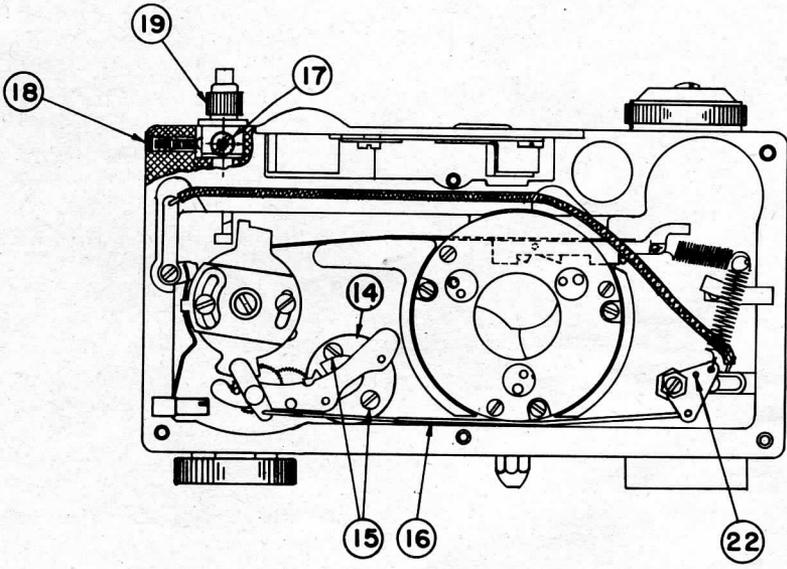
**Procedure: Shutter Escapement**

- (1) Before attempting to remove shutter escapement, mark bakelite case around shutter escapement base (14). This will simplify installing new shutter escapement in identical position of the original one. Then remove two screws (15) that hold escapement assembly to camera case.
- (2) Unhook wire link (16) from control arm of the escapement.

**Procedure: Shutter Release Assembly**

Remove front plate (see inst. on front plate figure "B"). Remove screw (17). Remove screw (18) and spring beneath screw which presses against small ball bearing. Carefully pull release assembly (19) from case. Watch for ball bearing which may drop out when release assembly is removed.

Figure E



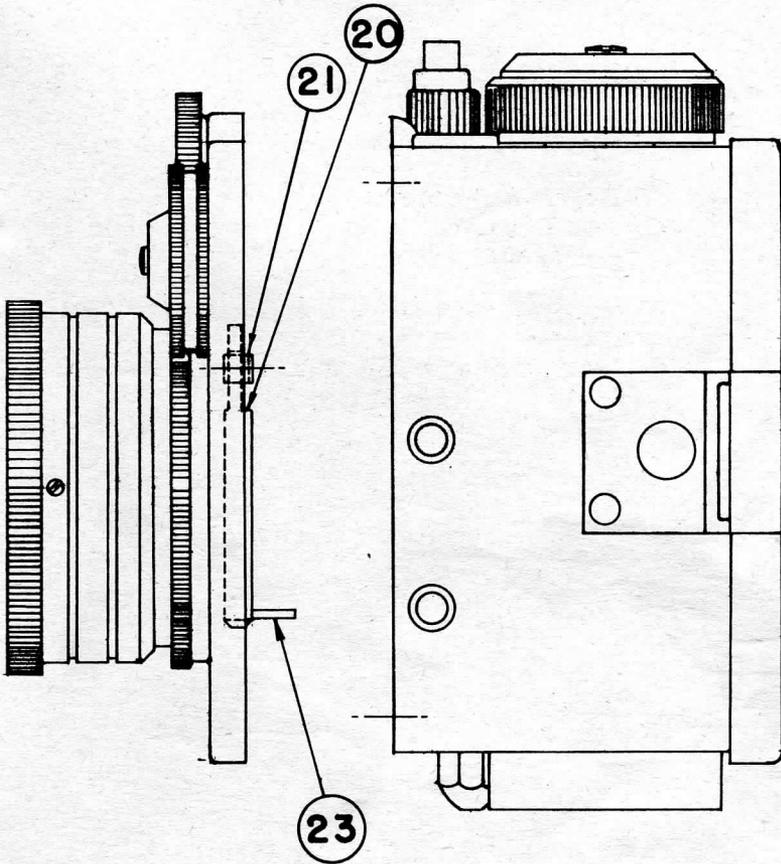
## INSTALLING FRONT PLATE

### Figure F

#### Procedure:

Set shutter speed dial (2) to 1/300 (see figure "B"). Turn front plate over and insert cam follower (20) in bracket (21) with pin pointing away from front plate. Carefully turn front plate over so as not to disturb position of cam follower. By holding plate at corners with thumb and forefinger of each hand, lower plate to about 1/4 inch above case. Note position of pin in cam follower and hole in triangle lever (22) Fig. "E" into which pin should be inserted. This allows enough space between camera and front plate so that the pin (23) can be directed to engage the hole of triangle lever (22) as front plate is lowered to correct position for inserting screws (3) see Fig. "B".

Figure F



## TO REPLACE GEAR BLOCK ASSEMBLY

Figure G

### Procedure:

- (1) Remove counter dial screw (24), dial (25), cupped friction washer (26) and post (27). (Insert screw-driver between back gear and case to prevent parts from turning while removing dial screw.)
- (2) Remove screw (28) and unscrew button (29).
- (3) Gear block assembly (30) can then be withdrawn from case cavity.

Figure G

