



INTRODUCTION TO SHUTTERS

Study Procedure and Practical Assignments

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No. 13391 Grade 100

1. Read and study the text "Introduction To Shutters."
2. You should know:
 - A. the differences between the disc-type and rotating-disc shutter.
 - B. the factors that determine the speed(s) delivered by the disc-type and rotating-disc shutter.
 - C. the devices used to control the length of exposure in the blade-type shutter.
 - D. the differences, advantages and disadvantages of the between-the-lens and behind-the-lens shutter positions.
 - E. the basic design fundamentals and operating parts of the two-blade shutter.
 - F. spring types and characteristics.
 - G. the basic design fundamentals and operating parts of the multiple-blade shutter.
 - H. the methods used to chart the action of a shutter.
 - I. the differences between the escapement, geared inertia and other simple retarding and speed controlling mechanisms.
 - J. the difference between a single-action and set and release shutter.
 - K. how to handle and use the jewelers screwdriver and tweezer.
3. Read and study the supplement "Kodak Instamatic 100."
4. Disassemble and reassemble the Instamatic practice mechanism. Repeat as many times as necessary for thorough understanding.
5. Read and study Servisheet 720, "Construction of Cycle-of-Operations for the Instamatic 100."
6. There are three parts missing in the Instamatic 100 cycle-of-operations shown on the back this sheet. Also missing are the arrows showing the direction of control to and from these parts. Add the missing parts and arrows following the instructions in Servisheet 720.
7. "Photo Supplement #709" is included for reference only. Camera collecting and restoration has become a popular pastime for many photo buffs. The Dakon and Kodon shutters illustrated are representative of those used on a number of old Eastman folding cameras. Even though obsolete, mechanisms of this type still make excellent extra practice projects. They can be located through newspaper ads, flea markets and garage sales, and can usually be purchased at relatively low cost.

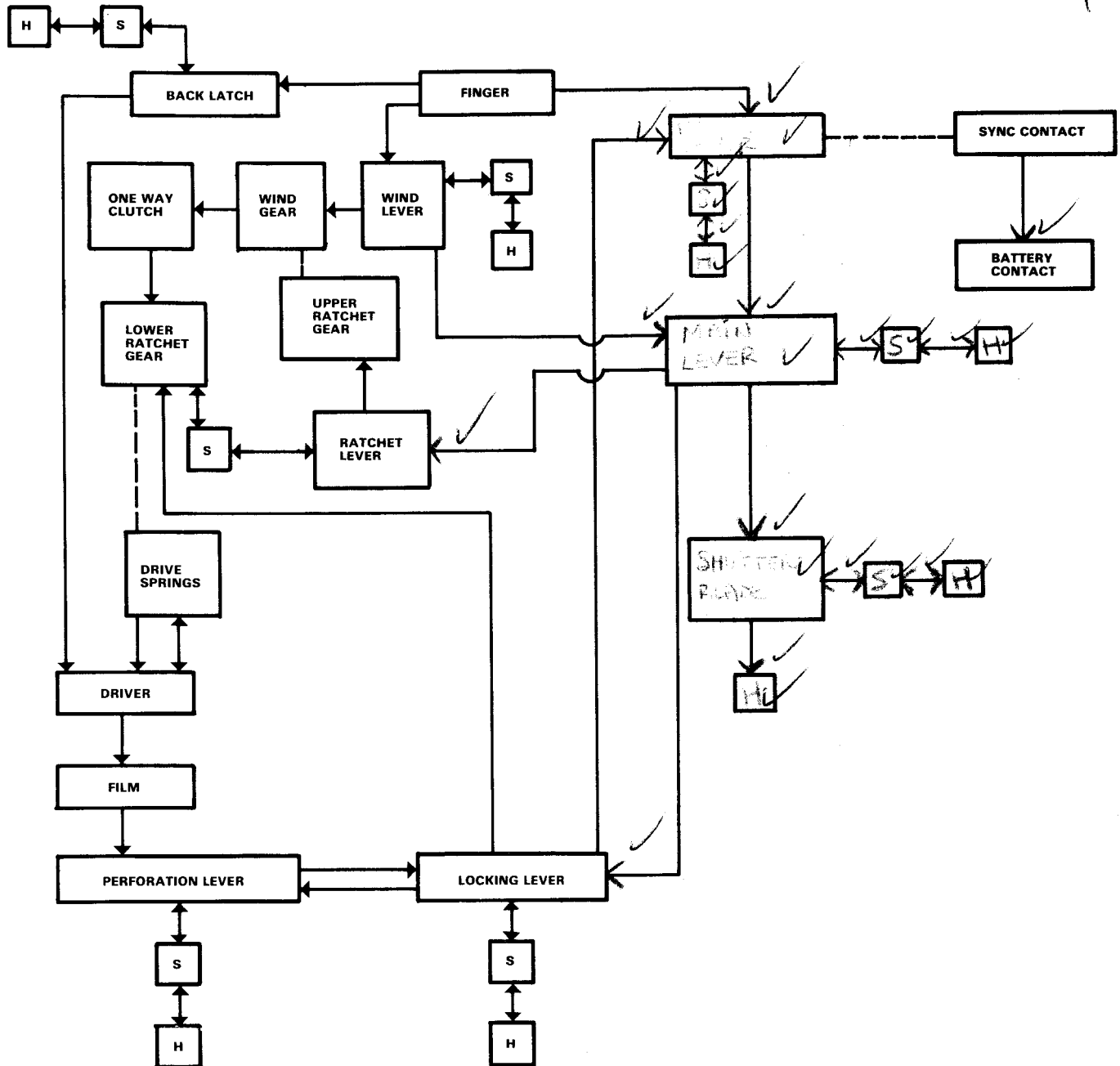
The Dakon is a simple single-action, multiple-blade (3) shutter. It has variable main lever/leaf lever engagement speed control -- plus time and bulb action.

The Kodon is also a single-action shutter but of two-blade design. Speed control is via variable main spring tension -- plus time and bulb action.
8. Make sure that your practice mechanism is in perfect working order before returning it for grading and comments.
9. Place your completed Lesson Quiz, form #6611-L1, Study Procedure and Practical Assignments in the return envelope provided. Be sure the fragile practice mechanism is carefully packed in an appropriate carton. Place the envelope in the carton and send it to the Instruction Department.

To avoid delays DO NOT include correspondence to other departments in your lesson shipment.

Instamatic Mechanism - Operation O.K.,
- Assembly O.K.,

Excellent Job!



Cycle-of-Operations - Kodak Instamatic 100 shutter and wind mechanism